400 Seventh Street, S.W. Washington, D.C. 20590



U.S. Department of Transportation

National Highway Traffic Safety Administration

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*** *** ***





SCHOOL OF PUBLIC AND ENVIRONMENTAL AFFAIRS U.S. Department of Transportation National Highway Traffic Safety Administration National Center for Statistics and Analysis 400 Seventh Street, S.W. Washington, D.C. 20590-0003

SUBJECT: Submission of Special Crash Investigation Case Report

Please find enclosed three (3) copies of On-Site Air Bag Investigation, Case Number 96-12. I have also enclosed one (1) set of color photographs, one (1) Summary form, and one (1) set of Air Bag (Accident and Person) coding forms.

Please contact me if you have any questions or comments regarding this investigative report.

Associate Scientist

Enclosures

cc:

TRANSPORTATION RESEARCH CENTER



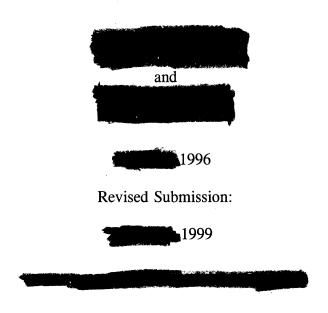
TRANSPORTATION RESEARCH CENTER

Indiana University Bloomington, Indiana 47403-1599

ON-SITE AIR BAG INVESTIGATION

CASE NO. - 96-12 FLEET - PRIVATE VEHICLE LOCATION - NORTH CAROLINA ACCIDENT DATE - 1996

Submitted By:



Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration National Center for Statistics and Analysis Washington, D.C. 20590-0003

DISCLAIMERS

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

Technical Report Documentation Page

1.	Report No. 96-12	2. Government Accession No.	3.	Recipient's Catalog No.
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9.	9. Performing Organization Name and Address Transportation Research Center		10.	Work Unit No. (TRAIS)
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12.	Sponsoring Agency Name and Addr U.S. Department of Transpor National Highway Traffic Sa	rtation (NRD-32)	13.	Type of Report and Period Covered Technical Report Crash Date: 1996
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15. Supplementary Notes

On-site air bag deployment investigation involving a 1994 Plymouth Voyager, 4-door, 7-passenger minivan, with manual belts and dual front air bags

16. Abstract

This report covers an on-site investigation of an air bag deployment crash that involved a 1994 Plymouth Voyager minivan (case vehicle) and a 1986 Chevrolet Celebrity (vehicle #2). This crash is of special interest because the case vehicle's front right passenger sustained a fatal, atlanto-occipital dislocation as a result of impacting her deploying, front right passenger, air bag. The case vehicle was traveling south in the southbound lane of a two-lane, undivided, city street. Vehicle #2 was traveling west in the westbound lane of an intersecting, two-lane, undivided, city street. The front of the case vehicle impacted the right front of vehicle #2, causing the case vehicle's driver and front right passenger supplemental restraint systems (air bags) to deploy. The case vehicle's driver (24-year-old female) was seated in an upright posture with her seat track located in its middle position, and the tilt steering wheel was located in its middle position. She was not wearing her available, active, three-point, lap and shoulder belt and sustained, according to her interview, a sore neck as a result of this crash. The front right passenger (4-year-old female) in the case vehicle was seated in an upright postured, with her seat track located in its middle position, and she was not wearing her available, active, three-point, lap and shoulder belt. She sustained, according to her medical records, a fatal atlanto-occipital dislocation and associated brain injuries which included: a concussion--comatose with no brain stem function, cerebellar and cerebral edema diffusely over her brain, intraventricular hemorrhage in her posterior lateral ventricles, and subarachnoid hemorrhage in the spaces of her posterior fossa and fourth ventricle. In addition, she sustained soft tissue abrasions and contusions. The case vehicle's second-seated passengers (3-year-old female--left, and 3-year-old male--middle) were in a nonadjustable seat and were seated in an upright posture in child booster seats, which were restrained by their available, active, three-point, lap and shoulder belts. According to the case vehicle's driver (i.e., mother), both had the shoulder portion of their belts behind their backs, and neither child was injured.

17.	Key Words Air Bag Deployment	Motor Vehicle Traffic Crash Injury Severity	18. Distribution States General Public	
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TRC/IU ON-SITE AIR BAG INVESTIGATION

TRC/IU CASE NO. 96-12

FLEET - PRIVATE VEHICLE LOCATION - NORTH CAROLINA

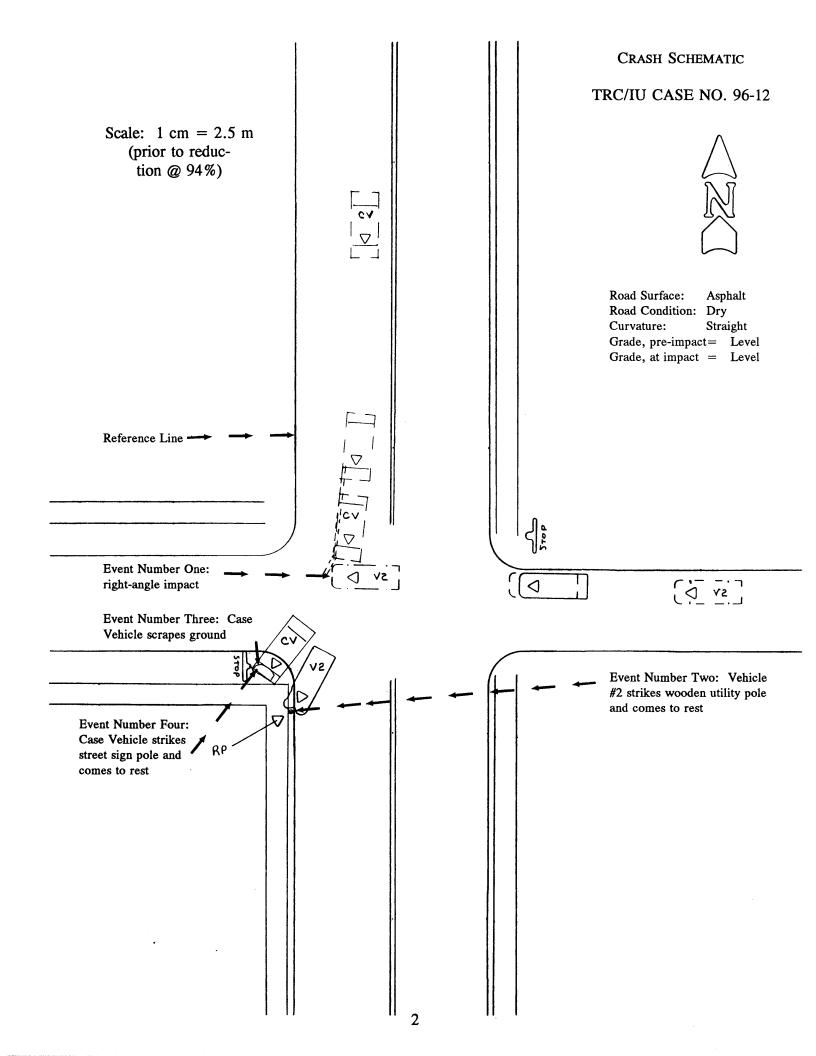
SUMMARY

This report concerns a motor vehicle crash involving an air bag equipped 1994 Plymouth Voyager minivan (case vehicle), and a 1986 Chevrolet Celebrity, four-door sedan (vehicle #2), occurring in 1996 at 11:42 a.m., on a city street. This crash is of special interest because the case vehicle's front right passenger sustained a fatal, atlanto-occipital dislocation as a result of impacting her deploying, front right passenger, air bag.

The case vehicle was traveling south in the southbound lane of a two-lane (i.e. one southbound lane with parking and one northbound lane with parking), undivided, city street when it impacted vehicle #2 which was traveling west in the westbound lane of an intersecting, two-lane, undivided, city street. After their initial impact, the case vehicle rotated approximately 30 degrees clockwise, vehicle #2 rotated approximately 50 degrees counterclockwise, and both vehicles traveled toward the southwest corner of the intersection. The case vehicle came to rest heading southwest, and vehicle #2 came to rest heading south-southwest.

The front of the case vehicle impacted the right front of vehicle #2. Subsequently, the front center of vehicle #2 impacted a wooden utility pole, and the case vehicle impacted the ground with its front air dam (i.e., scraped) and a street sign post with its front right bumper. CDCs were determined to be: 11-FDEW-1, 12-FDLN-1, and 12-FRLN-1 for the case vehicle and 02-RYEW-1 and 12-FCEN-1 for vehicle #2. The WinSMASH reconstruction program, damage only algorithm, was used on the highest severity impact to the case vehicle. The Total, Longitudinal, and Lateral Delta Vs are, respectively: 12.7 km.p.h. (7.9 m.p.h.), -11.9 km.p.h. (-7.4 m.p.h.), +4.3 km.p.h. (+2.7 m.p.h.).

The 1994 Plymouth Voyager was equipped with both driver and front right passenger supplemental restraint systems (air bags) which deployed as a result of the frontal impact. The driver of the vehicle (24-year-old female) was seated in an upright posture, with her seat track located in its middle position, and the tilt steering wheel was located in its middle position. She was not wearing her available, active, three-point, lap and shoulder belt and sustained, according to her interview, a sore neck as a result of this crash. The front right passenger (4-year-old female) in the case vehicle was seated in an upright posture, with her seat track located in its middle position, and was not wearing her available, active, three-point, lap and shoulder belt. She sustained, according to her medical records, a fatal atlanto-occipital dislocation and associated brain injuries which included: a concussion--comatose with no brain stem function, cerebellar and cerebral edema diffusely over her brain, intraventricular hemorrhage in her posterior lateral ventricles, and subarachnoid hemorrhage in the spaces of her posterior fossa and fourth ventricle. In addition, she sustained a contusion to her posterior skull, abrasions to her right jaw area and whole anterior and lateral neck, and a contusion to her posterior neck. The second-seated passengers (3-year-old female--left, and 3-year-old male--middle) were in a nonadjustable seat and were seated upright in child booster seats which were restrained by their available, active, three-point, lap and shoulder belts. According to the case vehicle's driver, both children had the shoulder portion of their safety belts behind their backs, and neither child was injured. The driver (74-year-old female) of vehicle #2 was seated in an upright posture, with her seat track located in its forward-most position and the steering wheel was not adjustable. She was not wearing her available, active, three-point, lap and shoulder belt and sustained, according to her interview, moderate injuries which included: a fractured right clavicle, an injured right shoulder {joint}, and soft tissue contusions and lacerations.



TRC/IU ON-SITE AIR BAG INVESTIGATION

TRC/IU CASE NO. 96-12

FLEET - PRIVATE VEHICLE LOCATION - NORTH CAROLINA

CRASH DATA

Location/Street:

City Street

State:

North Carolina

Area/Type:

Urban, residential

Crash Date/Time:

1996 @ 11:42 a.m.

Investigating Police Agency:

City Police Department

Crash Type:

Minivan / Car - right angle

Occupant Injury Severity (air bag vehicle):

Atlanto-occipital dislocation (AIS-2) and

probable transection of the spinal cord near

the C_1 location

AMBIENT CONDITIONS

Light Conditions:

Daylight

Weather Condition:

Clear, (no clouds)

Precipitation:

None

Road Surface:

Dry

Temperature:

55 degrees F at a nearby North Carolina

airport

ROADWAY

Case Vehicle

Vehicle #2

Location:

City street

City street

Number of Travel Lanes:

Two lanes, undivided; one lane southbound with

Two lanes, undivided; one lane eastbound, one

parking lane, one lane northbound with parking

lane westbound

lane

Width:

6.9 meters (22.6 feet) for travel and parking lane

2.9 meters (9.5 feet)

ROADWAY (CONTINUED)

Vehicle #2 Case Vehicle

Bituminous Bituminous Surface Type:

None Median: None

Unimproved, grass Shoulders: Improved, rough asphalt

pavement and sidewalk

Level Vertical alignment: Level

Horizontal alignment: Straight Straight

Estimated Coefficient of

.75 .75 Friction:

Traffic Density: Light Light

TRAFFIC CONTROLS

Case Vehicle Vehicle #2

Signals: None None

Regulatory STOP and SPEED LIMIT signs Signs: None

Markings: Double solid yellow Faded white STOP bar at

center lines and faded Stop sign and faded douwhite edge line along ble solid yellow center-

west side of roadway lines

Speed Limit: 56 km.p.h. (35 m.p.h.) 56 km.p.h. (35 m.p.h.)

VEHICLES

Case Vehicle Vehicle #2

Year: 1994 1986

Make: Plymouth Chevrolet

Model: Voyager Celebrity

Body Type: 4-door minivan, 7-passen-4-door sedan, 6-passen-

V.I.N. 2P4GH2538RR-----1G1AW19R3G6-----

Color: Blue Gray

Mileage: 155,292 km (96,494 mi) 94,002 km (58,410 mi)

	VEHICLES (CONTINUED)		
	Case Vehicle	Vehicle #2	
Engine:	3.0 liters, V-6, MPI	2.5 liters, I-4, EFI	
Transmission:	4-Speed automatic	3-speed automatic	
Steering:	Power-assisted, rack-and-pinion	Power-assisted, rack-and-pinion	
Brakes:	Power-assisted, front disc, rear drum	Power-assisted, front disc, rear drum	
Padding:	Steering wheel and hub, dash, sun visors, "A"-pillars, side door surfaces	Steering wheel and hub, dash, sun visors, "A"-pillars, side door surfaces	
Active Restraints:	3-point, manual, lap and shoulder belts in front, second, and rear outboard seating positions; lap belt only at rear center seating positions	3-point, manual, lap and shoulder belts in front outboard seating positions; lap belt only in center front and rear seating positions	
Passive Restraints:	Factory installed driver and front right passenger supplemental restraint systems (air bags)	Not equipped	
Defects:	None	None	
Fleet:	Private vehicle	Private vehicle	
Tow status:	Towed due to damage	Towed due to damage	
	Vehicle Damage		
EXTERIOR	Case Vehicle	Vehicle #2	
Deployment Impact			
Event number:	First	First	
Object Struck:	Vehicle #2	Case Vehicle	
Damage location Damaged Plane: Vertical Location On Plane:	Front	Right	
Direct Begins:	Bumper and grille Front left bumper corner and goes across to front right bumper corner	Mid-door Right front bumper corner and rearward, [i.e., 186 cm (73.2 in) for- ward of right rear axle]	

VEHICLE DAMAGE (CONTINUED)				
EXTERIOR (Continued)	Case Vehicle	Vehicle #2		
Deployment Impact (Continued)				
Length Direct: Field L: C ₁ : C ₂ : C ₃ : C ₄ : C ₅ : C ₆ : Direct D: Field L D: Maximum Crush: Location:	153 cm (60.2 in) 154 cm (60.6 in) 19 cm (7.5 in) 10 cm (3.9 in) 9 cm (3.5 in) 8 cm (3.1 in) 4 cm (1.6 in) 0 cm (0.0 in) 0 cm (0.0 in) 0 cm (0.0 in) 20 cm (7.9 in) Near C ₁	154 cm (60.6 in) 199 cm (78.3 in) 0 cm (0.0 in) 3 cm (1.2 in) 11 cm (4.3 in) 6 cm (2.4 in) 6 cm (2.4 in) 0 cm (0.0 in) +126 cm (+49.6 in) +131 cm (+51.6 in) 11 cm (4.3 in) C ₃		
CDC:	11-FDEW-1 (-20)	02-RYEW-2 (+70)		
Damaged Components:	Bumper, grille, left head- light assembly, hood, right parking lamp, left and right front fenders	Right front fender, right front wheel and assembly, and right front door		
Nondeployment Impacts	Case Vehicle's First	Case Vehicle's Second		
Event number:	Third	Four		
Object Struck:	Ground	Street sign post		
Damage location Damaged Plane: Vertical Location On Plane: Direct Begins: Length Direct: Field L: C ₁ : C ₂ : C ₃ : C ₄ : C ₅ : C ₆ : D: Maximum Crush: Location:	Front Air dam Bumper corner to bumper corner Not applicable Not applicable	Front Bumper 35 cm (13.8 in) right of center 9 cm (3.5 in) 9 cm (3.5 in) Not applicable		
CDC:	12-FDLN-1 (00)	12-FRLN-1 (00)		
Damaged Components:	Front air dam	Front bumper		

VEHICLE DAMAGE (CONTINUED)

Vehicle #2's

EXTERIOR (Continued)

Nondeployment Impacts (Continued)

Event number:

Object Struck:

Wooden utility pole

Damage location

Damaged Plane:

Front

Two

Vertical Location

On Plane:

Bumper

Direct Begins:

7 cm (2.8 in) right of center

Length Direct: Field L:

13 cm (5.1 in) 144 cm (56.7 in)

 C_1 : C_2 :

0 cm (0.0 in) 2 cm (0.8 in)

 C_3 :

12 cm (4.7 in) 18 cm (7.1 in)

C₅: C₆:

2 cm (0.8 in) 0 cm (0.0 in)

D:

+14 cm (+5.5 in) 23 cm (9.1 in)

Maximum Crush: Location:

Between C_3 and C_4

CDC:

12-FCEN-1 (00)

Damaged Components:

Front bumper and grille

INTERIOR

Case Vehicle

Vehicle #2

Windshield and right dash

Damaged Components:

Windshield and driver and

front right passenger air

bag modules

Other Evidence of

Occupant Contact:

Right front side rail and

Glove box

right "B"-pillar

Manual Restraint

System Failures:

None

None

Seat Performance

Failures:

None

None

REPAIR

Cost Estimate:

Totaled

Totaled

VEHICLE V	ELOCITY	ESTIMATES
-----------	---------	-----------

Highest Delta "V"	Case Vehicle	Vehicle #2
Reconstruction Program:	WinSMASH	WinSMASH
Program Algorithm:	Damage only	Damage only
Travel Speed:	48 km.p.h. (30 m.p.h.)	16 km.p.h. (10 m.p.h.)
Total Delta "V":	13 km.p.h. (8 m.p.h.)	17 km.p.h. (11 m.p.h.)
Longitudinal Delta "V":	-12 km.p.h. (-7 m.p.h.)	-6 km.p.h. (-4 m.p.h.)
Lateral Delta "V":	+4 km.p.h. (+3 m.p.h.)	-16 km.p.h. (-10 m.p.h.)
Barrier Equivalent:	16 km.p.h. (10 m.p.h.)	12 km.p.h. (8 m.p.h.)

COLLISION SEQUENCE

PRE-CRASH:

According to the Police Crash Report and the case vehicle's driver, the case vehicle (Voyager) was traveling south in the southbound lane of a two-lane, undivided, city street and was attempting to continue in its southward direction of travel (i.e. there was one southbound lane with parking and one northbound lane with parking). Vehicle #2 was traveling west in the westbound lane of an intersecting, two-lane, undivided, city street and was attempting to cross through the intersection. The case vehicle's driver attempted to avoid the crash by braking (with lock-up) and steering to her right. As a result of her attempted avoidance maneuvers, the case vehicle veered to the right and deposited, according to the scene inspection, 6.3 meters (20.8 feet) of skid marks prior to impact. According to the driver of vehicle #2, she made no pre-crash avoidance maneuvers. Vehicle #2 continued straight ahead prior to impact. The crash occurred in the northeast quadrant of the four-leg intersection.

CRASH:

The front of the case vehicle impacted the right front side of vehicle #2 causing the driver and front right passenger supplemental restraint systems (air bags) to deploy. After their initial impact, the case vehicle rotated approximately 30 degrees clockwise, vehicle #2 rotated approximately 50 degrees counterclockwise, and both vehicles traveled toward the southwest corner of the intersection. Vehicle #2 travelled south-southwestward approximately 7 meters (23 feet) and impacted a wooden utility pole with its front center. The case vehicle travelled southwestward approximately 7 meters (23 feet) and impacted (scraped) the ground with its front air dam prior to impacting a street sign post with its front right. Based on the Police Crash Report and the on-scene police photographs (see SELECTED PHOTOGRAPHS #05, #07, and #19), the case vehicle came to rest heading southwest at the point of impact with the street sign post. Vehicle #2 came to rest against the wooden utility pole heading south-southwest.

COLLISION SEQUENCE (CONTINUED)

POST-CRASH:

Occupants:

The driver of the case vehicle remained inside the vehicle at final rest. She was conscious and was able to exit the case vehicle without assistance. The front right passenger remained inside the vehicle at final rest. She was unconscious and was unable to exit the case vehicle because of her injuries. Both second-seated passengers remained inside the case vehicle at final rest, and were both conscious and able to exit the case vehicle with some assistance (i.e., assistance was required because of their age).

According to the case vehicle's driver, she was not using her available, active, three-point, lap and shoulder belt. Based on the preponderance of the physical evidence found on the windshield, front right passenger air bag, and right front side rail, the front right passenger was also not restrained. According to the Police Crash Report and the case vehicle's driver, both second-seated passengers were using their available, active, three-point lap and shoulder belts in conjunction with their child safety seats. The case vehicle's driver indicated that her second-seated children were seated in booster seats and that the shoulder portion of their safety belts was behind their backs, because the belts "struck" the children on their necks.

According to the Police Crash Report and the driver of vehicle #2, she remained inside the vehicle at final rest. She was conscious but was not able, because of her injuries, to exit her vehicle without assistance. Vehicle #2's driver was not using her available, active, three-point, lap and shoulder belt.

Police:

The investigating police agency was notified of the crash and arrived on-scene soon after. Traffic control procedures were established and emergency medical and towing services were called to assist.

Rescue:

The case vehicle's driver accompanied the front right passenger (i.e., her daughter) to the hospital but did not receive medical treatment. The driver, subsequently (i.e., two days post-crash), sought medical treatment for a sore neck from a private physician. Based on the front right passenger's medical records, the front right passenger was transported by ambulance to a medical facility. She was stabilized at the initial medical facility and then transferred by life flight helicopter to a trauma center and hospitalized. The front right occupant died in the hospital approximately 25 hours post-crash. According to the front right passenger's medical records, she sustained a fatal atlanto-occipital dislocation and associated brain injuries. The brain injuries included: a concussion--comatose with no brain stem function, cerebellar and cerebral edema diffusely over her brain, intraventricular hemorrhage in her posterior lateral ventricles, and subarachnoid hemorrhage in the spaces of her posterior fossa and fourth ventricle. In addition, she sustained a contusion to her posterior skull, abrasions to her right jaw area and whole anterior and lateral neck, and a contusion to her posterior neck. According to the case vehicle's driver, the second-seated passengers were not transported, did not require medical treatment, and were not injured.

COLLISION SEQUENCE (CONTINUED)

Post-Crash: Rescue: (Continued)

According to the Police Crash Report and vehicle #2's driver, she was transported by ambulance to a medical facility where she was treated and released. According to the driver of vehicle #2, she sustained a fractured right clavicle, an injured right shoulder {joint}, and soft tissue contusions and lacerations.

Removal:

Following the police investigation, both the case vehicle and vehicle #2 were

towed from the scene.

HUMAN FACTORS/OCCUPANT DATA				
DRIVERS:	Case Vehicle	Vehicle #2		
Age:	24-year-old	74-year-old		
Sex:	Female	Female		
Height:	168 cm (66 in)	160 cm (63 in)		
Weight:	68 kg (150 lbs)	78 kg (172 lbs)		
Occupation:	Interior decorator	Retired/homemaker		
Active Restraint System/Usage:	Three-point lap and shoul-der/Not used	Three-point lap and shoul- der/Not used		
Usage Source:	Interviewee	Interviewee and Police Crash Report		
Passive Restraint System/Usage:	Factory installed air bag/air bag deployed	Not equipped		
Usage Source:	Vehicle inspection and Interviewee	Not applicable		
Eye glasses/contacts:	Sunglasses	Not applicable		
Vehicle Familiarity:	32 months, and approximately 26,433 km (16,425 mi) per year	4-5 years, and approximately 8,047 km (5,000 mi) per year		
Route Familiarity:	Three times a week	Driven daily		
Trip Plan:	Home to personal business (i.e., pay a bill)	Personal Business to personal business (i.e., Running errands)		
Manner of Leaving Scene:	Ambulance	Ambulance		
Type of Medical Treatment:	Treatment later (i.e., saw physician two days post-crash	Treated and released		

HUMAN FACTORS/OCCUPANT DATA (CONTINUED)					
CASE VEHICLE PASSENGERS:	Front Right Passenger	Second-Seated Left Passenger	Second-Seated Middle Passenger		
Age:	4-year-old	3-year-old	3-year-old		
Sex:	Female	Female	Male		
Height:	109 cm (43 in)	94 cm (37 in)	99 cm (39 in)		
Weight:	20 kg (45 lbs)	12 kg (27 lbs)	16 kg (35 lbs)		
Active Restraint System/Usage:	Three-point lap and shoulder/Not used	Three-point lap and shoulder belt/Used with child safety seat; however, shoulder portion of belt was behind child	Three-point lap and shoulder belt/Used with child safety seat; however, shoulder portion of belt was behind child		
Usage Source:	Vehicle inspection, and Police Crash Report	Interviewee	Interviewee		
Passive Restraint System/Usage:	Front right air bag/deployed	Not equipped	Not equipped		
Usage Source:	Vehicle inspection, interviewee, and Police Crash Report	Not applicable	Not applicable		
Eye glasses/contacts:	Sunglasses	Not applicable	Not applicable		
Manner of Leaving Scene: Type of Medical	Ambulance	Went with family member	Went with family member		
Treatment:	Hospitalized, died 25 hours post-crash	None	None		

Case Vehicle Driver Injuries ¹					
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	<u>Certainty</u>	
Unknown if injured ¹	9	7	Unknown	{Unknown}	

The case vehicle's driver indicated in her interview that her neck was "really sore", but she did not use any of the "key" words that this contractor would associate with a cervical strain. She sought medical attention two days post-crash; however, her attorney, who limited this contractor's access to the driver, did not acquire her medical records.

Case Vehicle Front Right Passenger Injuries ^{2,3,4,3}				
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	<u>Certainty</u>
Atlanto-occipital dislocation ²	650208.2,6	2	Air bag, front right passenger's	{Certain}
Concussion, comatose, pupils fixed and dilated, GCS=3, flaccid x 4 extremities, no brain stem function	160824.5,0	2	Air bag, front right passenger's	{Certain}
Cerebellar edema	140454.3,6	3	Air bag front right passenger's	{Certain}
Cerebral edema diffusely over both hemispheres	140668.3,3 ³	3	Air bag, front right passenger's	{Certain}
Intraventricular hemorrhage in posterior lateral ventricles	$140678.4,3^3$	3	Air bag, front right passenger's	{Certain}
Subarachnoid hemorrhage in spaces of posterior fossa and fourth ventricle	140884.3,64	3	Air bag, front right passenger's	{Certain}
Contusion posterior skull	190402.1,6	2	"B"-pillar, right side	{Probable}
Abrasion right jaw area	290202.1,1	2	Front right air bag module's cover flap ⁵	{Possible}
Abrasion whole anterior and lateral neck area	390202.1,0	2	Air bag, front right passenger's ⁵	{Certain}
Contusion posterior neck	390402.1,6	2	"B"-pillar, right side	{Probable}

CASE VEHICLE SECOND-SEATED LEFT PASSENGER INJURIES					
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	Certainty	
Not injured	0	7	Not applicable	Not applicable	

According to the medical examiner (i.e., a noninvasive examination signed by an M.D. and documented on a medical examiner's record), this occupant's spinal cord was transected near the C₁ location; however, this injury is not listed because no autopsy was done (i.e., this allegation is not medically substantiated and is at best a probable lesion). In addition, the extent of the dislocation is described as follows: the foramen magnum is approximately 4 centimeters (1.6 inches) above and 4 centimeters (1.6 inches) anterior to its expected location.

Strictly according to NASS CDS Injury Coding protocol, the Aspect "bilateral" is not allowed for the purpose of combining these lesions when they involve both cerebral hemispheres; each "lesion-hemisphere combination" should be coded separately. Bilateral is used here because the contact mechanism for each cerebral hemisphere is identical (i.e., the air bag).

Strictly according to NASS CDS Injury Coding protocol, the valid Aspect codes for this listed injury are Right ("1") and Left ("2"). However, the actual medical injury description does not fit either of these two alternatives; therefore, the Aspect code Posterior ("6"), which is valid for other listed injuries, is used.

In addition to the front right air bag, it is likely, based on the vehicle inspection, that the module's cover flap contacted this passenger's right jaw and/or neck area. The lack of specific medical detail pertaining to the occupant's soft tissue injuries precludes any certainty in this matter.

Case Vehicle Second-Seated Middle Passenger Injuries				
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	<u>Certainty</u>
Not injured	0	7	Not applicable	Not applicable

Vehicle #2 Driver Injuries				
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	<u>Certainty</u>
Fracture right clavicle	752200.2,1	7	Right side door armrest	{Possible}
Injury right shoulder {joint}	751099.1,1	7	Right side door armrest	{Possible}
Laceration forehead	290600.1,7	7	Windshield	{Certain}
Contusion right breast	490402.1,1	7	Right dash and below	{Probable}
Contusion right shoulder	790402.1,1	7	Right side door armrest	{Possible}
Laceration right knee	890600.1,1	7	Right dash and below	{Probable}

CASE VEHICLE DRIVER KINEMATICS

According to the case vehicle's driver, immediately prior to the crash she was normally postured (i.e., seated upright with her back against the seat back, her left foot on the floor, her right foot on the brake, and both hands on the steering wheel). According to the Case vehicle's driver, her seat track was in the middle position, and the tilt steering wheel was located in the middle position. According to the driver's interview, she was not wearing her available, active, three-point, lap and shoulder belt. According to the scene evidence and the vehicular damage⁶ on both vehicles, the case vehicle's driver steered to the right and braked, attempting to avoid the crash. As a result of these avoidance maneuvers and the nonuse of her available safety belts, she most likely moved slightly forward and to her left just prior to impact.

Based on the vehicle and scene inspections, the case vehicle's primary impact, with vehicle #2, not only deployed the driver's side air bag, but thrust the driver forward and slightly upward. As a result of the impact, she directly contacted her deploying air bag (see SELECTED PHOTO-GRAPHS #40 and #43 which show a red lipstick mark) causing the driver to move further upward and rearward. According to the Police Crash Report and the scene evidence, the case vehicle rotated approximately 30 degrees clockwise (to the west) after its impact with vehicle #2. As a result of the clockwise rotation, the driver most likely moved toward the right side of the case vehicle's driver seat.

The case vehicle's primary contact area was at the front left corner; vehicle #2's primary damage occurred to its right front fender.

CASE VEHICLE DRIVER KINEMATICS (CONTINUED)

According to the Police Crash Report and the scene evidence, the case vehicle continued in a southwesterly direction toward the southwest corner of the intersection. The case vehicle impacted, first the ground, and secondly a street sign post. These subsequent impacts most likely caused the driver to move back forward. The case vehicle came to rest on the southwest corner of the intersection, partially off the roadway, facing southwest against the sign post.

The case vehicle's driver most likely rebounded rearward after her vehicle's impact with the sign post. At final rest, the case vehicle's driver most likely remained primarily in her original seating position. Our inspection of the case vehicle showed that the driver's seat track was in the full rearward position with the seat back in the upright position. The windshield was not contacted by the driver nor was there any deformation to the steering wheel. The case vehicle's driver side supplemental restraint (air bag) appears to have work as designed by preventing the driver from sustaining any serious injuries. According to her interview, she sustained only a sore neck as a result of this crash.

CASE VEHICLE FRONT RIGHT PASSENGER KINEMATICS

According to the case vehicle's driver, prior to the crash the front right passenger (4-year-old female) was normally postured (i.e., seated upright with her back against the seat back, her feet hanging down, and her arms in her lap). According to the driver, the front right passenger's seat track was located in the middle position, but upon inspection, the seat track was found in the full rearward position. In this contractor's opinion, the seat track was most likely moved during this occupant's removal. According to the case vehicle's driver, she thought that her daughter (i.e., the front right passenger) was restrained by her safety belt. However, the driver indicated that only minutes prior to the crash her daughter "had joked" that if she didn't get her way (i.e., on some issue), she would take her seat belt off. Based on the vehicle inspection and the occupant's emergency room medical records, she was not wearing her available, active, three-point, lap and shoulder belt. The case vehicle's attempted avoidance maneuvers (i.e., braking and steering to the right) propelled the four-year-old [20 kilograms (45 pounds)] forward toward the dash and slightly to her left. In this contractor's opinion, the front right passenger was near the case vehicle's front right air bag module just prior to impact.

Based on the vehicle and scene inspections, the case vehicle's primary impact not only deployed the front right passenger air bag, but further thrust the front right passenger forward and slightly upward. At the time of the passenger air bag's deployment, the front right passenger was very near the air bag module. In this contractor's opinion, the front right passenger most likely contacted the passenger air bag module's cover flap⁷--see SELECTED PHOTOGRAPHS #52 and #53, and then the deploying air bag--see SELECTED PHOTOGRAPHS #47, #49, and #51 showing lots of skin transfers on upper right portion of the air bag. According to the contact evidence

There appears to be an oil smudge to right side of the cover flap and a skin transfer along its front right edge. According to the medical examiner's report, there was an abrasion to her right cheek and across the front of her neck from the left to the right. If the cover flap struck this occupant, then this contractor, based on our previous special crash investigations, expected to see identified a distinct abrasion and/or laceration at the site of contact. Unfortunately, the lack of detail in the available medical records precludes any certainty on our part concerning whether or not the cover flap actually struck this occupant. However, it must be kept in mind that the available medical records focused on this occupant's critical nature rather than discerning occupant contact mechanisms.

CASE VEHICLE RIGHT FRONT PASSENGER KINEMATICS (CONTINUED)

found during the case vehicle's inspection and the medical description⁸ of the resulting fatal⁹, atlanto-occipital dislocation that the front right passenger sustained, it appears that the contact with the air bag module's cover flap and the air bag itself pushed the occupant's head upwards and forward while the occupant's torso was being "held-in-place" or pushed initially backwards. In this contractor's opinion, the deploying air bag caused the child to brush the windshield¹⁰ (i.e., an oil smear was identified--see Selected Photograph #54), prior to being thrown rearward and to the right¹¹. During her rebound, the front right passenger contacted the right front roof side rail and "B"-pillar with the back of her head (oil smears) and neck. After contacting of the roof side rail and "B"-pillar, the front right child passenger most likely landed on her seat, and her head contacted the base of the seat back (i.e., skin and blood--see Selected Photograph #60).

The case vehicle's subsequent impacts with the ground and sign post then sent the child forward onto the floorboard where she came to rest. The child's final rest position was confirmed by statements on her medical records and a blood spot found on the front of the auxiliary glove box located underneath the front right passenger's seat; see SELECTED PHOTOGRAPHS #61 and #62.

CASE VEHICLE SECOND-SEATED LEFT PASSENGER KINEMATICS

According to the case vehicle's driver, the left second-seated passenger (3-year-old female) was sitting upright--in a nonadjustable seat¹², with her back against the seat back, her feet hanging over the seat, and her hands on her lap eating popcorn. The child (i.e., her daughter) was seated in an unknown (i.e., Make/Model) child booster seat and was restrained by her available, active, three-point, lap and shoulder belt, which she was wearing in conjunction with the booster seat. In addition, she had the shoulder portion of her belt behind her back because the belt was, otherwise, against the child's face. As a result of the case vehicle's avoidance maneuvers, the child most likely moved slightly forward and to the left, loading the shield of her booster seat.

At impact the left second-seated passenger was thrown forward and slightly to the left, further loading the shield of her booster seat which was secured by her safety belt. A visual inspection of this occupant's "D"-ring showed no conclusive evidence of usage. According to occupant

According to the cervical spine x-ray (i.e., a cross table lateral view), the right front passenger's occiput (i.e., the foramen magnum) was displaced approximately 4 centimeters (1.6 inches) above and 4 centimeters (1.6 inches) anteriorly to its expected location on C₁.

The Medical Examiner indicated that the atlanto-occipital dislocation caused her spinal cord to be transected at the C₁ level; although this contractor believes that this assertion is "probably" true, this lesion is not coded because no invasive examination (i.e., autopsy) was performed. In this contractor's opinion, the likelihood of this injury is high and is consistent with the observed vital signs (i.e., no pulse, respirations, or blood pressure) since a laceration at the C₁ level (AIS=6) would sever her autonomic nervous system. In addition, the dislocation most likely caused the critical brain injuries that were verified by a CAT (computerized axial tomography) scan.

The front right passenger most likely contacted the windshield with her forehead and/or frontal scalp as she was lifted up and over her deploying air bag; however, because no soft tissue injuries were identified in her medical records to either the upper portion of her face or scalp, it is unknown exactly what anatomical area contacted the windshield.

The rightward rebound resulted from the case vehicle's clockwise rotation.

The vehicle inspection showed that the case vehicle's second-seat had a nonadjustable seat track and seat back.

CASE VEHICLE SECOND-SEATED LEFT PASSENGER KINEMATICS (CONTINUED)

kinematic principles, the child most likely move to the left as a result of the case vehicle's clockwise rotation.

The subsequent impacts with the ground and pole most likely caused the child to move forward. According to the Police Crash Report and the case vehicle's driver, this occupant sustained no injuries.

CASE VEHICLE SECOND-SEATED MIDDLE PASSENGER KINEMATICS

According to the case vehicle's driver, the middle second-seated passenger (3-year-old male) was sitting upright--in a nonadjustable seat¹², with his back against the seat back, his feet hanging over the seat, and his hands on his lap. The child (i.e., her relative) was seated in an unknown (i.e., Make/Model) child booster seat and was restrained by his available, active, three-point, lap and shoulder belt, which he was wearing in conjunction with the booster seat. In addition, he had the shoulder portion of his belt behind his back because the belt was, otherwise, against the child's face. As a result of the case vehicle's avoidance maneuvers, the child most likely moved slightly forward and to the left, loading the shield of his booster seat.

At impact the middle second-seated passenger was thrown forward and slightly to the left, further loading the shield of his booster seat which was secured by his safety belt. A visual inspection of this occupant's "D"-ring also showed no conclusive evidence of usage. According to occupant kinematic principles, the child most likely move to the left as a result of the case vehicle's clockwise rotation.

The subsequent impacts with the ground and pole most likely caused the child to move forward. According to the Police Crash Report and the case vehicle's driver, this occupant also sustained no injuries.

AIR BAG SYSTEM		
	DRIVER AIR BAG	PASSENGER AIR BAG
Air Bag Diameter (seam-to-seam, deflated):	Diameter: 63 cm (24.8 in)	Width: 48 cm (18.9 in) Height: 60 cm (23.6 in)
Number of Vent Holes:	Two	None
Vent Hole Diameter:	2.5 cm (1.0 in)	Not applicable
Vent Hole Clock Positions:	Approximately 11 and 1 o'clock	Not applicable

AIR BAG SYSTEM (CONTINUED)

	DRIVER AIR BAG	PASSENGER AIR BAG
Number of Air Bag Tethers:	None	Two, each 10 cm (4.0 in) wide
Number of Air Bag Module Cover Flaps:	Two	One
Upper Cover Flap Dimensions: Lower Cover Flap	Width: 17 cm (6.7 in) Height: 6 cm (2.4 in)	Width: 33 cm (13.0 in) Height: 15 cm (5.9 in)
Dimensions:	Width: 18 cm (7.1 in) Height: 7 cm (2.8 in)	Not applicable
Distance between Dash and Module's Cover Flap:	Not applicable	3.0 cm (1.2 in)
Generant Residue:	No unusual amount found	No unusual amount found

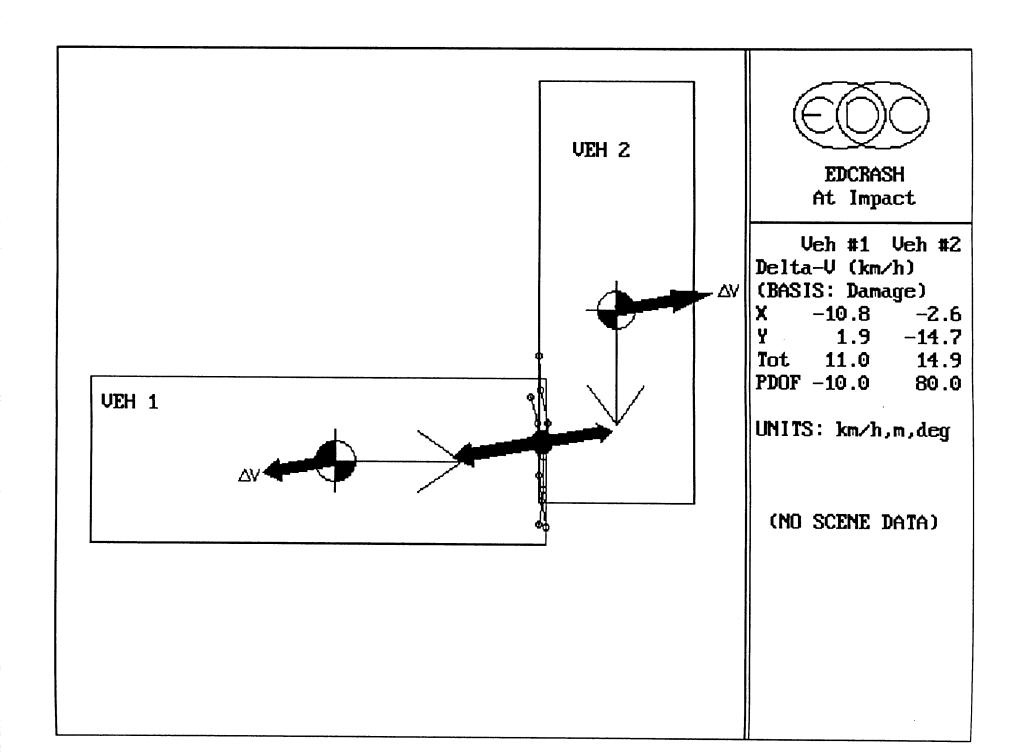
Appendix A:

WINSMASH (DAMAGE ONLY ALGORITHM):

including

Barrier Equivalent Speeds

SMASH (DAMAGE ONLY ALGORITHM -- INCLUDING BARRIER EQUIVALENT SPEEDS)



Summary of Results Using Damage

SCI 96-12 N.C.

Speed Change (Damage)

Vehicle #1

Total 11 km/h (7 mph)

Longitudinal -11 km/h (-7 mph)

Latitudinal 2 km/h (1 mph)

PDOF Angle -10 ½

Energy Dissipated = 19954 Joules (14715 Ft-Lb)

Barrier Equivalent Speed = 16.8 km/h (10.4 mph)

Calculated using crush coefficients entered by the user.

Vehicle #2

Motal

Total 15 km/h (9 mph)
Longitudinal -3 km/h (-2 mph)
Latitudinal -15 km/h (-9 mph)
PDOF Angle 80 ½

Energy Dissipated = 10917 Joules (8051 Ft-Lb)
Barrier Equivalent Speed = 10.5 km/h (6.5 mph)
Calculated using crush coefficients entered by the user.

General Information

	Vehicle #1 áááááááááá	Vehicle #2 ááááááááá
Year	1994	1986
Make	PLYMOUTH	CHEVROLET
Model	VOYAGER	CELEBRITY
CDC	12FDEW1	03RYEW2
Side Damaged	F	R
PDOF Angle	-10 ½	80 ½
Heading Angle	186 🕏	270 k

Calculation method: Vehicle's Crush Coeff. Vehicle's Crush Coeff.

 d0 crush coeff.
 107.05 sqrt(N)
 63.32 sqrt(N)

 d1 crush coeff.
 6.36 sqrt(N)/cm
 7.50 sqrt(N)/cm

Damage Information

	Vehicle #1	Vehicle #2
	ááááááááá	ááááááááá
Vehicle Damage Known	Yes	Yes
Crush Length	154.0 cm (61 in)	199.0 cm (78 in)
C1	19.0 cm (7 in)	0.0 cm (0 in)
C2	10.0 cm (4 in)	3.0 cm (1 in)
C3	9.0 cm (4 in)	11.0 cm (4 in)
C4	8.0 cm (3 in)	6.0 cm (2 in)
C5	4.0 cm (2 in)	6.0 cm (2 in)
C6	0.0 cm (0 in)	0.0 cm (0 in)
D	0.0 cm (0 in)	154.0 cm (61 in)
D'	-22.9 cm (-9 in)	157.1 cm (62 in)

Vehicle Dimensions

	Vehicle #1 ááááááááá	Vehicle #2 ááááááááá
Length	452.0 cm (178 in)	478.0 cm (188 in)
Width	183.0 cm (72 in)	176.0 cm (69 in)
Wheelbase	285.0 cm (112 in)	266.0 cm (105 in)
Weight	1777 kgs (3918 lbs)	1310 kgs (2888 lbs)
CG to Front of Veh	251.0 cm (99 in)	228.1 cm (90 in)
Engine Displacement	3.0 liters	2.5 liters
Moment of Inertia Vehicle Mass	327992 kgs (29031 lbs) 1777 kgs (10.2 lb-s^2/in)	270412 kgs (23935 lbs) 1310 kgs (7.5 lb-s^2/in)



U.S. Department of Transportation

SMASH PROGRAM SUMMARY

National Highway Traffic Safety

(All Measurements In Metric)

NATIONAL ACCIDENT SAMPLING SYSTEM

Administration	CRASHWORTHINESS DATA SYSTEM
Identifying Title	
10 9612	0 1
Primary Case NoStratum Sampling Unit	Accident Event Date (Month, day, year) of Run Sequence No.
	NFORMATION
VEHICLE I	VEHICLE 2
NASS Vehicle Number	NASS Vehicle Number
Year 2	Year 7 8 6
Make Tymouth	Make <u>CheuroleT</u>
Model Voyager	Model <u>Celebrity</u>
Body Style $\frac{\vee}{}$	Body Style 4 S
$\frac{11 + DEW}{1}$	$\frac{02 R Y E W I}{}$
PDOF	PDOF
Heading Angle ± _ / <u>8</u> 6 °	Heading Angle ± 2 7 0 °
VEHICLE SE	PECIFICATIONS
VEHICLE I	VEHICLE 2
Wheelbase 285 cm	Wheelbase 2 6 6 cm
Overall Length $\frac{452}{cm}$ cm	Overall Length $\frac{478}{cm}$ cm
Overall Width / B 3 cm	Overall Width / 7 6 cm
Weight	Weight
$\frac{1649}{1649} + \frac{117}{11} + \frac{11}{11} = \frac{17777}{7} $ kg	1232 + 78 + 0 = 1310 kg
Curb Occupant(s) Cargo	Curb Occupant(s) Cargo
Engine Displacement 3.0 L	Engine Displacement
Drive System $\underline{F} \underline{\omega} \underline{D}$	Drive System $F \omega D$
Size <u>4</u>	Size <u>3</u>
Stiffness	Stiffness <u>3</u>
DAMAGE	NFORMATION
VEHICLE I	VEHICLE 2
Damage Known?	Damage Known?
Damage Length 1 5 4 cm	Damage Length 199 cm
Damage Offset ± cm	Damage Offset ±cm
Crush Depth: C1 / 9 cm	Crush Depth: C1 O cm
C2 / O cm	Direct D: ± 125,5 cm C2 cm
Direct D: ± cm	Direct D: ± cm
Field L D: ± cm C4 cm	Field L D: ± cm 63
C5 4 cm	C5 cm
C6 C cm	C6 cm
	CO

SCENE IN	IFORMATION	
Rest and Impact Positions [1] No [1] Yes Tr		
VEHICLE 1	VEHICLE 2	
Rest X m	Rest X m	
Position Y m	Position Y m	
Heading Angle °	Heading Angle °	
Impact X m	Impact X m	
Position Y m	Position Y m	
Heading Angle °	Heading Angle °	
Slip Angle (-180 to +180) °	Slip Angle (-180 to +180) °	
VEHICI	E MOTION	
Sustained Contact (j No. [] Yes VEHICLE 1	Sustained Contact (11No [a] Yes VEHICLE 2	
Vehicle Rotation [] No _ [] Yes Rotation Stop Before Rest [] No [] Yes	Vehicle Rotation [] No [] Yes Rotation Stop Before Rest [] No [] Yes	
End of Rotation X	End of Rotation X m	
Position Y m	Position Y m	
Heading Angle ° Gurved Path 中间的 1111 No. 1111 Yes	Heading Angle ° Curved Path 1 Yes	
Point on Path X . m Y . m Rotation Direction 1 1 None 1 1 CCW 1 CCW Rotation > 360° [] No [] Yes	Point on Path X . m Y . m Rotation Direction [1] None 4 1 GW [11] GGW Rotation > 360° [] No [] Yes	
FRICTION	INFORMATION	
Coefficient of Friction Rolling Resistance Option	· <u>1</u>	
Vehicle 1 Rolling Resistance	Vehicle 2 Rolling Resistance	
LF RF LR RR	LF RF LR RR	
IF THIS COMMON IMPACT WAS WITH A CDS VEHICL	LE NOT IN TRANSPORT, FILL IN THE INFORMATION BELOW.	
Model Year:	The Weight, CDC, Scene Data and Damage Information for this vehicle should be recorded above.	
Make:		
Model:	Complete and ATTACH the appropriate	
VIN:	isimelge skatein milloffmensions to the form	

General Information

SCI96-012

Vehicle 1 Vehicle 2 1994 1986 Year: Make: Plymouth Chevrolet Model: Voyager Celebrity Body Style: VN **4S** CDC: 11FDEW1 02RYEW1

Damaged Side:

PDOF: -20° 70° Heading Angle: 186° 270°

Vehicle Information

Vehicle 1 Vehicle 2 Wheelbase: 285.0 cm 266.0 cm Length: 452.0 cm 478.0 cm Width: 183.0 cm 176.0 cm Weight: 1777.0 kg 1310.0 kg Center of Gravity: 251.0 cm 228.1 cm Radius of Gyration: 135.6 cm 143.4 cm D0: 109.7 sqrt(N) 63.3 sqrt(N) D1: 8.5 sqrt(N)/cm 7.5 sqrt(N)/cm Size Category: 4 3 Stiffness Category: 7 3

SCI96-012 WinSMASH 1. 2. 1

Vehicle 1:

Vehicle 2:

Used d0 and d1 values estimated from the vehicle size.

Used d0 and d1 values estimated from the vehicle size.

Damage Information

	Vehicle 1	Vehicle 2
Damage Length:	154.0 cm	199.0 cm
Damage Offset:	0.0 cm	125.5 cm
Field L - D:	0.0 cm	131.0 cm
C1:	19.0 cm	0.0 cm
C2:	10.0 cm	3.0 cm
C3:	9.0 cm	11.0 cm
C4:	8.0 cm	6.0 cm
C5:	4.0 cm	6.0 cm
C6:	0.0 cm	0.0 cm

Summary of Results Using Damage

Vehicle 1

Speed Change

(Damage)

Total:

12.7 km/h -11.9 km/h

Longitudinal: Latitudinal:

4.3 km/h

PDOF:

-20°

Energy Dissipated:

25,636 Joules

Barrier Equivalent Speed:

16.4 km/h

Moment Arm of Principle Force:

84.1 cm (CW)

Change in Angular Velocity:

0.9 deg/seconds

Used d0 and d1 values estimated from the vehicle size.

Vehicle 2

Speed Change

(Damage)

Total:

17.2 km/h

Longitudinal:

-5.9 km/h

Latitudinal:

-16.1 km/h

PDOF:

70°

Energy Dissipated:

10,914 Joules

Barrier Equivalent Speed:

12.3 km/h

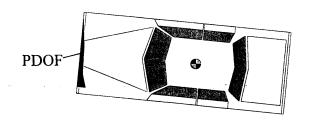
Moment Arm of Principle Force:

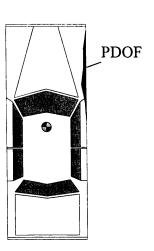
-94.2 cm (CCW)

Change in Angular Velocity:

-1.3 deg/seconds

Used d0 and d1 values estimated from the vehicle size.





NO DATA

The following page(s) were left intentionally blank.

PAGE NUMBER(S)

20,21

Appendix B:

SELECTED PHOTOGRAPHS

A total of ninety color copies of photographs are presented and referenced as Photograph #01 through Photograph #90. Photographs numbered #05, #07, #19, and #64 were taken and made available by the applicable city police department. The remainder of these photographs were taken by the Transportation Research Center.



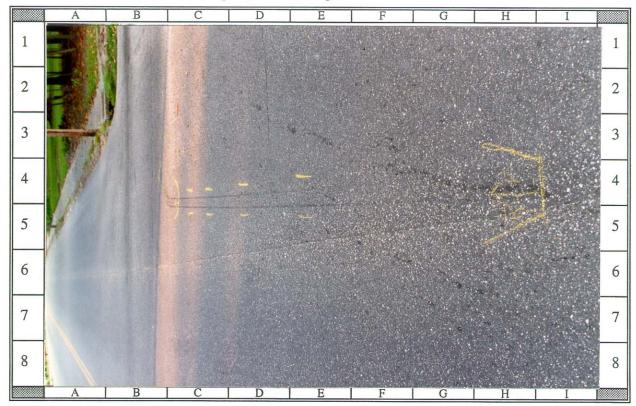
01: Case Vehicle's southward travel path in southbound lane approximately 30 meters (98 feet) north of impact in intersection



02: Case Vehicle's southward travel path in southbound lane approximately 15 meters (49 feet) north of impact in intersection



03: Case Vehicle's southward travel path in southbound lane approximately 5 meters (16 feet) north of impact; NOTE: right front skidmark



04: Close-up of Case Vehicle's right front skidmark in southbound lane approximately 5 meters (16 feet) north of impact in intersection



05: On-scene view looking south-southwest showing both vehicles at final rest; NOTE: police officers are marking case vehicle's deflection point



06: Case Vehicle's southbound travel path at points of impact and maximum engagement with Vehicle #2; NOTE: case vehicle's deflection scuff



07: On-scene view looking south at case vehicle's final rest position against street sign post; NOTE: post had not been replaced at time of our scene inspection



08: Southwest view of Case Vehicle's final rest position; NOTE: Case Vehicle's air dam scraped ground and bumper impacted sign post before coming to rest



09: Close-up of southwest corner of intersection showing ground and cement base of sign post struck by Case Vehicle's front



10: Northeastward view of Case Vehicle's southwest travel path taken from beyond final rest area showing area of impact with Vehicle #2



11: North-northeastward view of Case Vehicle's southbound travel path from just beyond area of impact; NOTE: skidmark and deflection point in intersection



12: Northward close-up of skidmark and deflection point deposited by Case Vehicle's right front tire



13: Vehicle #2's westward travel path in westbound lane approximately 30 meters (98 feet) east of impact in intersection



14: Vehicle #2's westward travel path in westbound lane approximately 15 meters (49 feet) east of impact in intersection



15: Vehicle #2's westward travel path in westbound lane approximately 5 meters (16 feet) east of impact in intersection with Case Vehicle



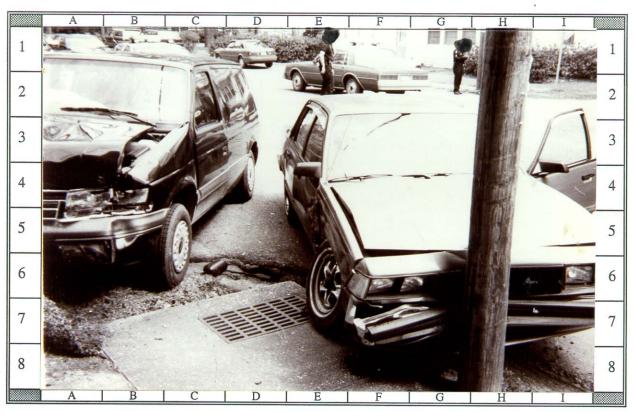
16: Vehicle #2's southwestward travel path post-impact with Case Vehicle; NOTE: Vehicle #2 subsequently struck utility pole on southwest corner of intersection



17: Close-up view, looking southwestward, of utility pole on southwest corner of intersection struck by Vehicle #2



18: Northeastward view of Vehicle #2's post-impact trajectory taken from beyond final rest showing Vehicle #2's final rest position against utility pole



19: On-scene view, looking northeastward, showing Case Vehicle and Vehicle #2 at their respective final rest positions



20: Eastward view of Vehicle #2's westward travel path from just beyond area of impact; NOTE: Case Vehicle's deflection mark in foreground



21: Case Vehicle's damaged front without contour gauge present; NOTE: shifting of front bumper to right



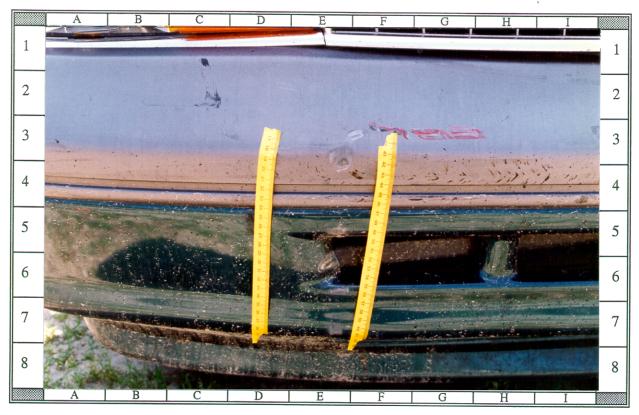
22: Case Vehicle's damaged front with contour gauge present; NOTE: direct damage extends across entire front



23: Close-up of Case Vehicle's front damage with contour gauge present; NOTE: sign post damage to bumper (cells C6--C7)



24: Close-up of sign post impact to Case Vehicle's front bumper; NOTE: reddish scuff is most likely from 1986 Chevrolet Celebrity



25: Closer-up view of sign post impact to Case Vehicle's bumper



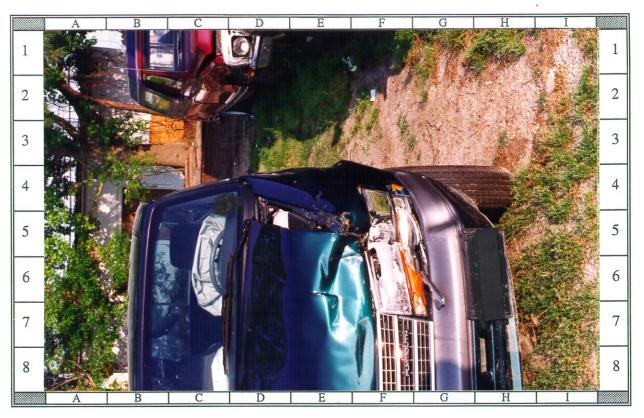
26: Close-up of Case Vehicle's air dam which contacted ground just prior to Case Vehicle's impact against sign post



27: Overhead view of to Case Vehicle's frontal damage; NOTE: contour gauge shows damage profile



28: Case Vehicle's damaged front viewed from approximately 45 degrees left of front with contour gauge present



29: Reference line view of Case Vehicle's left side from front showing front bumper's rightward shift



30: Reference line view of Case Vehicle's damaged front from left with contour gauge present



31: Case Vehicle's left fender, viewed from ~ 45 degrees left of back, showing induced damage and shifting which caused left front tire restriction



32: Case Vehicle's undamaged left side (except fender) and back viewed from approximately 30 degrees left of back



33: Case Vehicle's undamaged right side (except fender) and back viewed from approximately 30 degrees right of back



34: Case Vehicle's right fender, viewed from ~ 60 degrees right of back, showing induced damage from bumper shift which caused right front tire restriction



35: Reference line view of Case Vehicle's damaged front from right with contour gauge present



36: Case Vehicle's damaged front viewed from approximately 30 degrees right of front with contour gauge present



37: Reference line view of Case Vehicle's right side from front showing front bumper's slight rightward shift



38: Ground level view of Case Vehicle's air dam, from approximately 15 degrees right of front, which contacted ground prior to sign pole impact



39: Interior surface of Case Vehicle's driver door panel and deployed driver's side air bag and knee bolster viewed from outside driver's door



40: Case Vehicle's front seating area and deployed air bags showing contact to driver's air bag; NOTE: lipstick mark on driver's air bag (green dot)



41: Case Vehicle's front seating area and deployed air bags; NOTE: right front passenger contacts to right roof side rail and right "B"-pillar (green dots)



42: Close-up of contacts to Case Vehicle's right side roof rail and "B"-pillar from right front passenger's head



43: Case Vehicle's contacted driver side air bag, center dash, and noncontacted knee bolster viewed from rear center seat



44: Case Vehicle's driver side air bag module showing air bag's vent ports, noncontacted steering wheel rim, and module's top cover flap



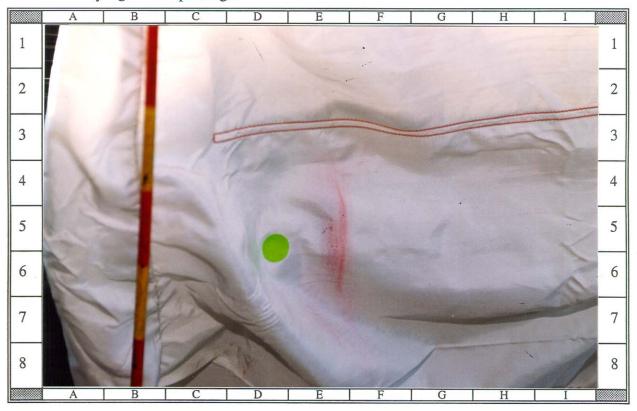
45: Close-up of Case Vehicle's driver side air bag module showing no evidence of contact to module's bottom cover flap



46: Case Vehicle's deployed air bags, front dash, and rearview mirror; NOTE: contacts to both air bags (green dots) and windshield (yellow tape)



47: Case Vehicle's right front air bag showing multiple areas of contact (green dots) by right front passenger



48: Close-up of contact to left center of Case Vehicle's right front air bag showing skin and smear by unknown red substance



49: Close-up of contact to right upper portion of Case Vehicle's right front air bag showing a large amount of skin transfer and an unknown red smear



50: Top portion of Case Vehicle's right front air bag showing module's cover flap and skin and red substance smearing near right upper portion of air bag



51: Close-up of contact evidence to upper portion of Case Vehicle's right front air bag; NOTE: green dot is identical to green dot shown in Photo #49 above



52: Close-up of cover flap from Case Vehicle's right front air bag module showing contact (oil smudge) from right front passenger's chin/neck



53: Close-up of cover flap's corner edge from Case Vehicle's right front air bag module showing contact evidence (skin) from passenger's neck/chin



54: Case Vehicle's windshield showing evidence of contact (smear above/along yellow tape) from right front passenger's head



55: Case Vehicle's glovebox showing scuff mark most likely from right front passenger's lower extremities



56: Close-up of scuff mark on Case Vehicle's glovebox



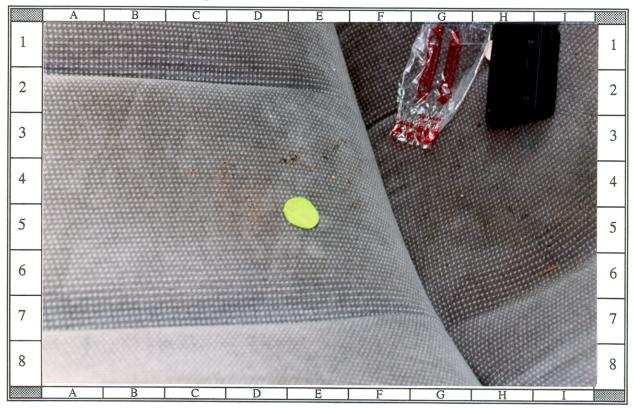
57: Case Vehicle's right dash showing tears (yellow tape) in dash which occurred during right front air bag's deployment; NOTE: separation (cell I3)



58: Close-up of tear to Case Vehicle's dash near left lower corner of right front air bag module's compartment



59: Close-up of tear to Case Vehicle's dash near right lower corner of right front air bag module's compartment



60: Close-up of Case Vehicle's right front passenger seatback showing skin transfer and blood smear to base of seatback



61: Case Vehicle's right front passenger seat showing blood spot on vertical surface (green dot) of auxiliary glovebox underneath seat



62: Close-up of blood spot on vertical surface of auxiliary glovebox underneath Case Vehicle's right front passenger seat



63: Case Vehicle's front seating area and deployed air bags viewed from outside right front passenger's door



64: On-scene view of Case Vehicle's front seating area and deployed air bags viewed from outside right front passenger's door



65: Interior surface of Case Vehicle's right front passenger door panel and deployed air bag; NOTE: no contact evidence to door panel



66: Case Vehicle's second seating area where two three year-olds were seated in booster seats of unknown type; NOTE: 3-point safety belts at outboard positions



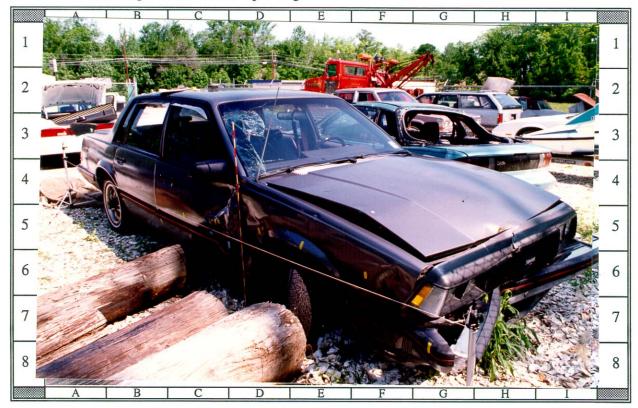
67: Case Vehicle's second seating area and front seatbacks which showed no evidence of contacts from second seat passengers



68: Close-up of Case Vehicle driver's seatback; NOTE: no evidence of contact from left second-seated passenger



69: Close-up of Case Vehicle passenger's seatback; NOTE: no evidence of contact from right second-seated passenger



70: 1986 Chevrolet Celebrity's damaged right side, viewed from approximately 45 degrees right of front, from initial impact with Case Vehicle



#71: Close-up of direct damage to Vehicle #2's right front fender viewed from right

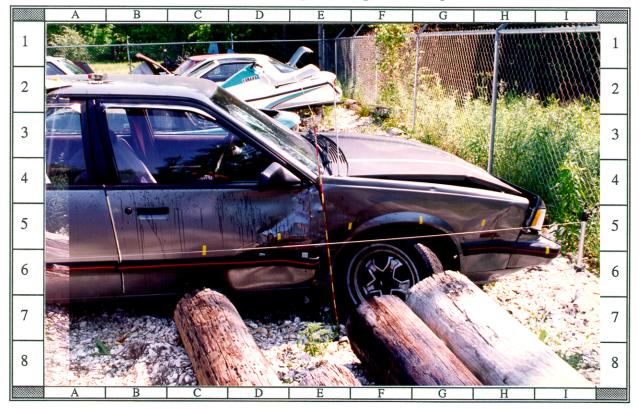


72: Close-up of direct damage to Vehicle #2's right front fender and passenger door viewed from approximately 75 degrees right of front

Vehicle #2: 1986 Chevrolet Celebrity, 4-Door Sedan, FWD, 6-Passenger, 2.5 L (151 in3) I-4 EFI



73: Right overhead view of Vehicle #2's damaged right side; NOTE: yellow tape represents C-measurements and spiderweb pattern to right windshield



74: Vehicle #2's damaged right side, viewed from right, from impact with Case Vehicle's front

Vehicle #2: 1986 Chevrolet Celebrity, 4-Door Sedan, FWD, 6-Passenger, 2.5 L (151 in3) I-4 EFI



75: Close-up of Vehicle #2's right side deformation viewed from approximately 60 degrees right of back



76: Vehicle #2's undamaged right back side and back viewed from approximately 45 degrees right of back

Vehicle #2: 1986 Chevrolet Celebrity, 4-Door Sedan, FWD, 6-Passenger, 2.5 L (151 in3) I-4 EFI



77: Vehicle #2's undamaged back and left side viewed from approximately 45 degrees left of back



78: Vehicle #2's damaged front and undamaged left side viewed from approximately 75 degrees left of front; NOTE: frontal impact was from utility pole

Vehicle #2: 1986 Chevrolet Celebrity, 4-Door Sedan, FWD, 6-Passenger, 2.5 L (151 in3) I-4 EFI



79: Reference line view of Vehicle #2's frontal damage from left; NOTE: frontal impact was from utility pole



80: Close-up of Vehicle #2's frontal damage from impact with utility pole viewed from approximately 60 degrees left of front

Vehicle #2: 1986 Chevrolet Celebrity, 4-Door Sedan, FWD, 6-Passenger, 2.5 L (151 in3) I-4 EFI



81: Close-up of Vehicle #2's direct damage from impact with utility pole; NOTE: narrow impact area



82: Close-up of Vehicle #2's frontal damage from impact with utility pole viewed from approximately 45 degrees right of front

Vehicle #2: 1986 Chevrolet Celebrity, 4-Door Sedan, FWD, 6-Passenger, 2.5 L (151 in3) I-4 EFI



83: Interior surface of Vehicle #2's driver door panel, steering wheel, and front dash area viewed from outside driver's door; NOTE: no evidence of contact



84: Vehicle #2's front seating area, steering wheel, and dash; NOTE: contacts to right side of windshield and dash from driver

Vehicle #2: 1986 Chevrolet Celebrity, 4-Door Sedan, FWD, 6-Passenger, 2.5 L (151 in3) I-4 EFI



85: Vehicle #2's steering wheel, front dash, rearview mirror, windshield and header area viewed from rear center seat



86: Vehicle #2's contacted right windshield and lower dash; NOTE: driver was unbelted and thrown towards 2 o'clock PDOF

Vehicle #2: 1986 Chevrolet Celebrity, 4-Door Sedan, FWD, 6-Passenger, 2.5 L (151 in³) I-4 EFI



#87: Close-up of Vehicle #2's broken glovebox from driver contact



88: Close-up of Vehicle #2's toepan area showing minor intrusion

Vehicle #2: 1986 Chevrolet Celebrity, 4-Door Sedan, FWD, 6-Passenger, 2.5 L (151 in3) I-4 EFI



89: Vehicle #2's rear seating area; NOTE: front seat headrests and outboard, 3-point safety belts, and three, 2-point, lap belts in rear seating area



90: Vehicle #2's driver seatbelt showing signs of previous usage

Vehicle #2: 1986 Chevrolet Celebrity, 4-Door Sedan, FWD, 6-Passenger, 2.5 L (151 in3) I-4 EFI

EDCRASH (DAMAGE ONLY ALGORITHM)

SUMMARY OF EDCRASH RESULTS

Lic. User: NHTSA S/N: 0266-8 Version: 4.61

Date: 1996 SCI 96-12 N.C.

MESSAGES:

NO MESSAGES

VEHICLE # 1

	IMP SPE km	ED	sı	PEED CHAI	NGE	BASIS FOR
	FWD	LAT	+	LATERAL	RESULTS	
	N/A	N/A	N/A	N/A	N/A	SPINOUT TRAJECTORIES AND CONSERVATION OF LINEAR MOMENTUM
	N/A	N/A	N/A	N/A	N/A	SPINOUT TRAJECTORIES AND DAMAGE
•			11.0	-10.8	1.9	DAMAGE DATA ONLY

VEHICLE # 2

	IMPA SPE km	ED	sı	PEED CHAI	NGE	BASIS FOR
İ	FWD	LAT	TOTAL	LONG.	LATERAL	RESULTS
	N/A	N/A	N/A	N/A	N/A	SPINOUT TRAJECTORIES AND CONSERVATION OF LINEAR MOMENTUM
	N/A	N/A	N/A	N/A	N/A	SPINOUT TRAJECTORIES AND DAMAGE
			14.9	-2.6	-14.7	DAMAGE DATA ONLY

SUMMARY OF DAMAGE DATA (NOTE: '**' indicates default value)

	Vehicle #1	Vehicle #2
CLASS / STIFFNESS CATEGORIES	4 / 4	3 / 3
WEIGHT	1776.5 kg	1310.0 kg
CDC	12FDEW1	O3RYEW3
DAMAGE WIDTH	154.0 cm	199.0 cm
CRUSH DEPTH 1	19.0 cm	0.0 cm
CRUSH DEPTH 2	10.0 cm	3.0 cm
CRUSH DEPTH 3	9.0 cm	11.0 cm
CRUSH DEPTH 4	8.0 cm	6.0 cm
CRUSH DEPTH 5	4.0 cm	6.0 cm
CRUSH DEPTH 6	0.0 cm	0.0 cm
DAMAGE MIDPOINT OFFSET	0.0 cm	154.0 cm
DAMAGE ENERGY	22810.9 Joules	7088.8 Joules
MAGNITUDE OF PRINCIPAL FORCE	126965.7 N	102679.2 N
DIRECTION OF PRINCIPAL FORCE	-10.0 deg	80.0 deg
MOMENT ARM OF PRINCIPAL FORCE	20.1 cm	-139.3 cm
DAMAGE CENTROID	-22.9 cm	157.1 cm

DIMENSIONAL, INERTIAL AND CRUSH STIFFNESS PROPERTIES (NOTE: '**' indicates default value)

	Vehic	le #1		Vehic	le #2	
CG TO FRONT AXLE	138.9	cm	**	130.3	cm	**
CG TO REAR AXLE	150.4	cm	**	141.0	cm	**
TRACKWIDTH	157.0	cm	**	149.6	cm	**
YAW MOMENT OF INERTIA	4284.4	kg-m^2	**	2807.2	kg-m^2	**
MASS	1773.6			1307.8		
BODY LENGTH FROM CG TO FROM	251.0	cm	**	228.1	cm	**
BODY LENGTH FROM CG TO REAR	-289.6	cm	**	-270.3	cm	**
BODY OVERALL WIDTH	195.6	cm	**	184.4	cm	**
CRUSH STIFFNESSES:	A	В		A	В	
	lb/in	lb/in^2	1	.b/in	lb/in^2	
	355.9 **	33.8 **		73.3 **	57.1 *	*

NO DATA

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PAGE NUMBER(S)

24, 25	
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TRC VECTOR ANALYSIS ITERATIONS

The TRC Vector Analysis program was used to determine the resultant theoretical Direction of Principal Force (PDOF) for both vehicles. Heading angles were determined from a combination of the Police Accident Report, the scene, and the vehicle inspections and weights were obtained from original specifications and interviewees. Based on our inspection of the each vehicle's crush, this contractor initially estimated the PDOFs as -30 degrees for the case vehicle and -90 degrees for vehicle #2.

The driver of the case vehicle indicated in her interview that she was traveling about the posted SPEED LIMIT of 56 km.p.h. (35 m.p.h.), when she attempted to brake and steer right to avoid vehicle #2. Because the case vehicle's driver definite realized the impending impact and her rightward steering maneuver, supported by the crush to the case vehicle, her speed at impact was most likely 40-48 km.p.h. (25-30 m.p.h.). The Police Accident Report and the case vehicle's driver indicated that vehicle #2 pulled out in front of the case vehicle and continued straight across her original travel path. According to the driver of vehicle #2, she indicated that she never saw the case vehicle. Therefore, vehicle #2 most likely was going approximately 8-16 km.p.h. (5-10 m.p.h.) at impact.

Six iterations of vehicle speeds are shown below: 40-56 km.p.h. (25-35 m.p.h.) for the case vehicle and 8-16 km.p.h. (5-10 m.p.h.) for vehicle #2. The program indicates that as vehicle #2's speed increases, the force collinearity vector rotates from -90 degrees toward -80 degrees for vehicle #2 while moving between -6 and -15 degrees for the case vehicle. Iterations two and four most closely match the observed vehicle crush. Therefore, the impact speeds for the case vehicle and vehicle #2 are most likely 48 km.p.h. (30 m.p.h.) and 16 km.p.h. (10 m.p.h.), respectively. In accordance with NASS, CDS protocol, the PDOFs were assigned at -10 for the case vehicle and -80 for vehicle #2.

PDOF & Delta V Estimation From At Impact Heading Angles, Slip, and Momentum Case Number: TRC/IU 96-12 - Task 0047

Vehicle Numbers: 01 and 02

(Both Vehicles Must Be Tracking Or CRASH 3 Slip Angle(s) Estimated)
(Neither Vehicle May Be Backing)

(If The Back Of A Vehicle Is Involved, Its Speed Must Be Set To Zero) (Some Configurations Involving Heavy Trucks Give Erroneous Results)

Vector Analysis Area	GV27(V01)	GV28(V02)	
Ln. Axis Heading Angle	186	270	
CG Heading Angle	186	270	
CRASH 3 Slip Angle	0	0	
Weight-Cargo	11	0	
Weight-Vehicle Curb Wt	1649	1232	
Weight-Passenger(s)	117	78	
Weight-Total	1777	1310	
Estimated Speed	56 (3 5)	8 (S	(m.p.h.)
Momentum	99512	10480	•
PDOF (Degrees)	-6	90	/91 STM
PDOF (Clock Direction)	12	3	
Theoretical Delta V	23.7	32.1	
Theoretical Common Vel.	32.	8 Post-Crash	CG Heading 192

#1

PDOF & Delta V Estimation From At Impact Heading Angles, Slip, and Momentum Case Number: TRC/IU 96-12 - Task 0047

Vehicle Numbers: 01 and 02

(Both Vehicles Must Be Tracking Or CRASH 3 Slip Angle(s) Estimated)
(Neither Vehicle May Be Backing)

(If The Back Of A Vehicle Is Involved, Its Speed Must Be Set To Zero) (Some Configurations Involving Heavy Trucks Give Erroneous Results)

Vector Analysis Area	GV27(V01)	GV28(V02)			
Ln. Axis Heading Angle CG Heading Angle	186 186	270 270			
CRASH 3 Slip Angle Weight-Cargo Weight-Vehicle Curb Wt	0 11 1649	0 0 1232			
Weight-Passenger(s) Weight-Total	117 1777	78 1310		c . 1	
Estimated Speed Momentum PDOF (Degrees)	99512	20960	(10)	(m,p, h	
PDOF (Clock Direction) Theoretical Delta V	-12 12 24.0	84 3 32.6		/91	STM
Theoretical Common Vel.	33.		sh CG H	eading	198

PDOF & Delta V Estimation From At Impact Heading Angles, Slip, and Momentum Case Number: TRC/IU 96-12 - Task 0047

Vehicle Numbers: 01 and 02

(Both Vehicles Must Be Tracking Or CRASH 3 Slip Angle(s) Estimated)
(Neither Vehicle May Be Backing)

(Neither Vehicle May Be Backing)
(If The Back Of A Vehicle Is Involved, Its Speed Must Be Set To Zero)
(Some Configurations Involving Heavy Trucks Give Erroneous Results)

Vector Analysis Area	GV27(V01)	GV28(V02)			
Ln. Axis Heading Angle	186	270			
CG Heading Angle	186	270			
CRASH 3 Slip Angle	0	0			
Weight-Cargo	11	0			
Weight-Vehicle Curb Wt	1649	1232			
Weight-Passenger(s)	117	78			
Weight-Total	1777	1310	_		
Estimated Speed	48 (30)	8	(5)	(mph.))
Momentum	85296	10480		• /	
PDOF (Degrees)	-7	89		/91	STM
PDOF (Clock Direction)	12	3			0111
Theorètical Delta V	20.3	27.5			
Theoretical Common Vel.	28		ash Co	3 Heading	193

#3

PDOF & Delta V Estimation From At Impact Heading Angles, Slip, and Momentum Case Number: TRC/IU 96-12 - Task 0047

Vehicle Numbers: 01 and 02

(Both Vehicles Must Be Tracking Or CRASH 3 Slip Angle(s) Estimated)
(Neither Vehicle May Be Backing)

(If The Back Of A Vehicle Is Involved, Its Speed Must Be Set To Zero) (Some Configurations Involving Heavy Trucks Give Erroneous Results)

Vector Analysis Area	GV27(VO1)	GV28(V02)			
Ln. Axis Heading Angle	186	270			
CG Heading Angle	186	270			
CRASH 3 Slip Angle	0	0			
Weight-Cargo	11	0			
Weight-Vehicle Curb Wt	1649	1232			
Weight-Passenger(s)	117	78			
Weight-Total ` ´	1777	1310			
Estimated Speed	48 (30)		(10)	(m.g.h.)	
Momentum	85296	20960	O * /		
PDOF (Degrees)	-14	82	1	/91	STM
PDOF (Clock Direction)	12	3	•	, J.	5111
Theoretical Delta V	20.8	28.2			
Theoretical Common Vel.	29		ash CG	Heading	199

PDOF & Delta V Estimation From At Impact Heading Angles, Slip, and Momentum Case Number: TRC/IU 96-12 - Task 0047

Vehicle Numbers: 01 and 02

(Both Vehicles Must Be Tracking Or CRASH 3 Slip Angle(s) Estimated)
(Neither Vehicle May Be Backing)

(Neither Vehicle May Be Backing)
(If The Back Of A Vehicle Is Involved, Its Speed Must Be Set To Zero)
(Some Configurations Involving Heavy Trucks Give Erroneous Results)

Vector Analysis Area	GV27(V01)	GV28(V02)			
Ln. Axis Heading Angle	186	270			
CG Heading Angle	186	270			
CRASH 3 Slip Angle	0	0			
Weight-Cargo	11	0			
Weight-Vehicle Curb Wt	1649	1232			
Weight-Passenger(s)	117	78			
Weight-Total	1777	1310			
Estimated Speed	40 (2≤	5) 8	(5)	Cm.p.k	.)
Momentum	71080	10480		,	
PDOF (Degrees)	-8	88		/91	STM
PDOF (Clock Direction)	12	3			
Theoretical Delta V	17.0	23.0		*.	
Theoretical Common Vel.	23	.6 Post-Cr	ash CG	Heading	194
					#5

PDOF & Delta V Estimation From At Impact Heading Angles, Slip, and Momentum Case Number: TRC/IU 96-12 - Task 0047 Vehicle Numbers: 01 and 02

(Both Vehicles Must Be Tracking Or CRASH 3 Slip Angle(s) Estimated)

(Neither Vehicle May Be Backing)

(Neither Vehicle May Be Backing)
(If The Back Of A Vehicle Is Involved, Its Speed Must Be Set To Zero)
(Some Configurations Involving Heavy Trucks Give Erroneous Results)

Vector Analysis Area	GV27(V01)	GV28(V02)			
Ln. Axis Heading Angle	186	270			
CG Heading Angle	186	270			
CRASH 3 Slip Angle	0	0			
Weight-Cargo	11	0			
Weight-Vehicle Curb Wt	1649	1232			
Weight-Passenger(s)	117	78			
Weight-Total	1777	1310			
Estimated Speed	40 (25)	16	(10)	(m.g.k.))
Momentum	71080	20960		- 1	
PDOF (Degrees)	-17	79		/91	STM
PDOF (Clock Direction)	11	3			• • • • • • • • • • • • • • • • • • • •
Theoretical Delta V	17.6	23.9			
Theoretical Common Vel.	24.	7 Post-Cr	ash CG	Heading	202

TRC VECTOR ANALYSIS PROGRAM

PDOF (Direction of Principal Force) is assigned based on the vehicular crush. Heading Angles are assigned based on scene evidence and Police Accident Reported crash configurations. This program was created to enable researchers in the NASS CDS to assess the compatibility of their assigned vehicle PDOFs and heading angles. When two vehicles are involved in an impact, researchers were often times submitting PDOFs that were not compatible with their heading angle assignments, indicating a lack of understanding of basic vector analysis concepts. Subsequently, the TRC has used this program to help verify our field PDOF assignments by making logical changes in the reconstructed crash configuration and determining the affect these changes have on PDOF.

Principal: This program is based on the geometric triangle rule (i.e., the sum of the three angles of a triangle must equal 180 degrees). The direction of one vehicle's (e.g., the case vehicle or Vehicle #1) CG (i.e., Center of Gravity) forms one side of the triangle. The direction of the other vehicle's (e.g., Vehicle #2) CG forms a second side of the triangle. The third side of the triangle is then formed by each vehicle's respective PDOF because the forces are assumed to act collinear.

Assumptions: It is assumed that each vehicle's weight can be represented by a "point-mass". It is assumed that the vector force acting on each vehicle goes through the center of gravity (i.e., CG) of the vehicle. Further, it is assumed that the vehicles move off together joined as one object. This program does not take into affect the mass reduction that occurs in other reconstruction programs since its primary purpose is to check the compatibility of the field determined PDOF and Heading Angle.

Inputs: Heading Angle, Slip Angle ("Yaw"), Weights (Curb Weight, Cargo Weight, and Weight of all occupants), and Speed

Outputs: This program's primary output is each vehicle's theoretical PDOF, presented in both degrees and CDC clock directions. Other outputs include a theoretical Delta V and a theoretical Common Velocity. The theoretical Delta V shows the maximum Delta V for the given speeds and weights assuming a dead center impact. For special crash investigation purposes, the last two outputs should be essentially ignored.

Use: The TRC uses this program on nonaxial collisions involving two vehicles to vary the "less established inputs" in order to determine what theoretical affect these changes have on our field observed PDOFs. The most solid input is the weights of the respective vehicles. Even though the cargo weight is rarely accurately known, its order of magnitude is such that in the vast majority of crashes its affect is minor. The next solid inputs are the vehicle's heading angle and slip angle. In most cases these are fairly well known from the available physical evidence. The least solid input is the vehicle's speed. The submitted iterations show the inputs and what variations to those inputs that the TRC took into consideration. The PDOF outcomes are then compared with our field observed PDOF and adjustments are made, if necessary, in our final coding.

Purpose: This program is but one more tool in the hands of a researcher aimed at providing the best data.

TRANSPORTATION RESEARCH CENTER

Indiana University Bloomington, Indiana 47403-1599

ON-SITE AIR BAG INVESTIGATION

NASS CDS FORMS AND MEDICAL RECORDS

CASE NO. - 96-12 FLEET - PRIVATE VEHICLE LOCATION - NORTH CAROLINA ACCIDENT DATE - 1996

Submitted By:



Revised Submission:



Contract Number:

Prepared for:

U.S. Department of Transportation
National Highway Traffic Safety Administration
National Center for Statistics and Analysis
Washington, D.C. 20590-0003

POLICE CRASH REPORT

			eport	T	Day of Wee	k 1	County	·	Time			Loca	Use /	Patrol Area		Date Rece	itred by DMF
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ACCIDENT SCENE MEASUREMENTS

	FROM	REF. PT.	FROM BA	SE LINE		TTO LAST A GLOSED	SHOW DAMAGED
PT	N	5	E	W		ITEM MEASURED	.AREA OF VEHICLE
A					A	FROM RP-1 To BAS line	
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If the coordinate measuring method is used, enter the direction N (North), S (South), etc., in the blocks provided at the top of the form under From Ref. Pt. and From Base Line. If the triangulation method is used, strike out Ref. Pt. and Base Line and enter RP1; RP2, at the top of the form.

If points to be located exceeds the spaces provided, continue listing points on the reverse side of this form.

If more than three vehicles are involved, draw additional vehicles and show the damaged areas on the reverse side of this form.

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ACCIDENT COLLISION MEASUREMENT TABLE



U.S. Department of Transportation National Highway Traffic Safety Administration

ACCIDENT COLLISION MEASUREMENT TABLE

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number/	0	Case N	lumber -	-Stratum <u>9612</u>	
ACCIDENT COL	LISION DIAGRAM				
ACCIDENT COL Document the physical plant: all road/roadway delineation (e.g., curbs/edge lines, lane markings, median markings, pavement markings, parked vehicles, poles, signs, etc.) all traffic controls (e.g., speed limit) north arrow placed on diagram roadway surface type and condition of applicable roadways grade measurements for all applicable roadways and at location of rollover initiation	Document vehice reference point to physical ferminduced physical fermin	entation of all roadside	CRASH DATA VEH. #1 VEH. #2 VEH. #2 VEH. #1 VEH. #2 VEH. #2 VEH. #1 VEH. #2 VE		
• roadway curvature	b) reconstr	ucted accident dynamics	Measure (between and finated finated) Grade (v. Measure (at located)	ement LeV LeV en impact el rest) //h) ement M/A N/A	
Reference Point: Utility	Pole	Reference line:	1.	est ED68	
SW CORNER	101		> f	2000	
Item		Distance and Direction from Reference Point Distance and Direction from Reference Line			
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NASS CDS ACCIDENT FORM

ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Administration						SO DATA OTOTER
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	IDENTIFICATION	ON			•	\circ
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4. Date of Accid	ent			(Data for this spec	ial study available	
(Month,Day,Y	4	9 6	8	SS17 Impact I	Fires	0
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Code repo	orted military time	of accident.				\bigcirc
NOTE: M Ui	idnight = 2400 nknown = 9999		10	SS19 Run Off	Road	
				NUMBER (OF EVENTS	
				lumber of Recorded This Accident	Events	04
			1 -	ode the number of this accident.	events which oc	ccurred
		ACCIDI	ENT EVEN	TS		<u>-</u>
	that occurred in the or object in the ri	accident, code the l		ered vehicle in the left	columns and the	other
Accident Event	M-4:-1-	01 05	General	Vehicle Number	Class Of	General Area of
Sequence Number	Vehicle Number	Class Of Vehicle	Area of Damage	or Object Contacted	Vehicle	Damage
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19. <u>0 2</u>	20. <u>O</u> <u>A</u>	21. <u>0</u> <u>3</u>	22. <u>F</u>	23. <u>5]</u>	24. <u>O</u> O	25. <u>O</u>
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33. 0 4	34. 0	35. 20	36. <u>F</u>	37. 50	38	39
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IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

CODES FO	R CLASS OF VEHICLE
V2: 104.9 →2	h l.~
(OO) Not a motor venicle	(31) Large pickup track (3 4,000 kgs C V VIII)
(01) Subcompact/mini (wheelbase < 254 cm)	(38) Other pickup truck (s 4,536 kgs GVWR) (39) Unknown pickup truck type (s 4,536 kgs GVWR)
(02) Compact (wheelbase ≥ 254 but < 265 cm)	(39) Unknown pickup truck type (≤ 4,536 kgs GVWR) (45) Other light truck (≤ 4,536 kgs GVWR)
(03) Intermediate (wheelbase ≥ 265 but < 278 cm) —— (04) Full size (wheelbase ≥ 278 but < 291 cm)	(48) Unknown light truck type (± 4,536 kgs GVWR)
(04) Full size (wheelbase ≥ 278 but < 291 cm) (05) Largest (wheelbase ≥ 291 cm)	(49) Unknown light vehicle type
(09) Unknown passenger car size	(50) School bus (excludes van based)(>4,536 kgs GVWR)
(14) Compact utility vehicle	(58) Other bus (> 4,536 kgs GVWR)
(15) Large utility vehicle (≤ 4,536 kgs GVWR)	(59) Unknown bus type
(16) Utility station wagon (< 4,536 kgs GVWR)	(60) Truck (> 4,536 kgs GVWR)
(19) Unknown utility type	(67) Tractor without trailer
(20) Minivan (≤ 4,536 kgs GVWR) — CV	(68) Tractor-trailer(s)
(21) Large van (≤ 4,536 kgs GVWR)	(78) Unknown medium/heavy truck type (79) Unknown light/medium/heavy truck type
(24) Van Based school bus (≤ 4,536 kgs GVWR) (28) Other van type (≤ 4,536 kgs GVWR)	(80) Motored cycle
(29) Unknown van type (≤ 4,536 kgs GVWR)	(90) Other vehicle
(30) Compact pickup truck (≤ 4,536 kgs GVWR)	(99) Unknown
CODES FOR GENERA	AL AREA OF DAMAGE (GAD)
CDS APPLICABLE (0) Not a motor vehicle	(R) Right side (T) Top
AND OTHER (N) Noncollision	(L) Left side (U) Undercarriage
	(B) Back -(9) Unknown
TDC (0) Not a motor vehicle	(L) Left side (C) Rear of cab
TDC (0) Not a motor vehicle APPLICABLE (N) Noncollision	(B) Back of unit with cargo area (V) Front of cargo area
VEHICLES (F) Front	(rear of trailer or straight truck) (T) Top
(R) Right side	(D) Back (rear of tractor) (U) Undercarriage
(iii) iiigiii siss	(9) Unknown
	JMBER OR OBJECT CONTACTED
(01-30) — Vehicle Number	(57) Fence (58) Wall
Noncollision	(59) Building
(31) Overturn — rollover (excludes end-over-end)	(60) Ditch or culvert
(32) Rollover - end-over-end	(61) Ground
(33) Fire or explosion	(62) Fire hydrant
(34) Jackknife	(63) Curb
(35) Other intraunit damage (specify):	(64) Bridge (68) Other fixed object (specify):
(36) Noncollision injury	
(38) Other noncollision (specify):	(69) Unknown fixed object
(39) Noncollision — details unknown	Collision with Nonfixed Object
1-21	(70) Passenger car, light truck, van, or other vehicle
Collision With Fixed Object	not in-transport
(41) Tree (≤ 10 cm in diameter)	(71) Medium/heavy truck or bus not in-transport
(42) Tree (> 10 cm in diameter)	(72) Pedestrian (73) Cyclist or cycle
(43) Shrubbery or bush (44) Embankment	(74) Other nonmotorist or conveyance
(45) Breakaway pole or post (any diameter)	(7 1) Canal Manual Canal
	(75) Vehicle occupant
Nonbreakaway Pole or Post	(76) Animal
(50) Pole or post (≤ 10 cm in diameter)	(77) Train
(51) Pole or post (> 10 cm but ≤ 30 cm in diamete	
(52) Pole or post (> 30 cm in diameter) (53) Pole or post (diameter unknown)	(79) Object fell from vehicle in-transport (88) Other nonfixed object (specify):
100) Tole of post foliameter unknowny	
(54) Concrete traffic barrier	(89) Unknown nonfixed object
(55) Impact attenuator (56) Other traffic barrier (includes guardrail)	(98) Other event (specify):
	(30) Other event (specify).
(specify):	

NASS CDS VEHICLE FORMS: CASE VEHICLE

STEM STEM

National Highway Traffic Safety Administration	GENERAL V	EHICLE FORM	NATIONAL ACCIDENT SAMPLING SYS CRASHWORTHINESS DATA SYS
Primary Sampling Unit Number Case Number - Stratum Wehicle Number	9612	12. Speed Limit (000) No statutory Code posted or stat in kmph (999) Unknown	limit cutory speed limit
4. Vehicle Model Year Code the last two digits of the m (99) Unknown 5. Vehicle Make (specify): Applicable codes are found in you NASS Data Collection, Coding and Editing Manual. (99) Unknown 6. Vehicle Model (specify): Applicable codes are found in you NASS Data Collection, Coding and Editing Manual. (999) Unknown	$ \begin{array}{c} $	(0) No alcohol pres (1) Yes alcohol pre (7) Not reported (8) No driver presel (9) Unknown 14. Alcohol Test Result Code actual value (d before first digit—0. (95) Test refused (96) None given	phol Presence For Driver ent sent for Driver lecimal implied xx) med, results unknown int
7. Body Type Note: Applicable codes may be for the back of this page. 8. Vehicle Identification Number 2. P. 4. G. H. 2. 5. 3. 8. R. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 11. Left justify; Slash zeros and letter No VIN—Code all zeros Unknow 9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance	2 13 14 15 16 17 7 (0) and 7)	15. Police Reported Other Driver (0) No other drug(s) (1) Yes other drug(s) (7) Not reported (8) No driver preser (9) Unknown 16. Other Drug Specimen (0) No specimen tes (1) Drug(s) not foun (2) Drug(s) found in (3) Specimen test g obtained (8) No driver presen (9) Unknown if specimen	present Test Result For Driver tt given d in specimen specimen, (specify): iven, results unknown or not
(6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown OFFICIAL RECORDS 10. Police Reported Vehicle Disposition (0) Not towed due to vehicle dama (1) Towed due to vehicle damage (9) Unknown 11. Police Reported Travel Speed Code to the nearest kmph (NOTE: (less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown	ige 1	17. Driver's Zip Code (00001)Driver not a recode actual \$\frac{(99998)}{(99998)}\$No driver presequence (99999)Unknown 18. Driver's Race/Ethnic (1) White (non-Hispan (2) Black (non-Hispan (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, (6) Asian or Pacific Is (7) Other (specify):	Origin nic) Eskimo or Aleut
30 mph x 1.6093 = 48 kmph		(8) No driver present (9) Unknown	

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (O1) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students agot cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)</p>
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRECRASH ENVIRONMENTAL DATA				
	PRECIASH ENVIRONMENTAL DATA		25	. Roadway Surface Condition)
l		^		(1) Dry	
19.	Relation To Interchange Or Junction	4	i	(2) Wet	
ļ	(0) Non-interchange area and non-junction		ı		
	(1) Interchange area related		1	(3) Snow or slush	
1				(4) Ice	
1	Non-Interchange junctions			(5) Sand, dirt, or oil	
	(2) Intersection related		1	(8) Other (specify):	
	(3) Driveway, alley access related			(9) Unknown	
1	(4) Other junction (specify)		1		
İ	(4) Other junction (specify)				1
1			26.	Light Conditions	上
	(5) Unknown type of junction		i	(1) Daylight	
Ì			1	(2) Dark	
	(9) Unknown			(3) Dark, but lighted	
l			1	(4) Dawn	
		_	l	(5) Dusk	
20.	Trafficway Flow	\circ	1	(9) Unknown	
ĺ	(0) Not physically divided (two way traffic)			(5) CHRIDWII	
	(1) Divided trafficway-median strip without		1		
	positive barrier		1	Annual trade Occident	^
İ	(2) Divided trafficway-median strip with positive		27.	Atmospheric Conditions	\circ
İ	· · · · · · · · · · · · · · · · · · ·	' E	1	(0) No adverse atmospheric-related driving	
	barrier		l	conditions	
	(3) One way traffic			(1) Rain	
	(9) Unknown		l	(2) Sleet/hail	
ĺ			l	(3) Snow	
24	Number Of Towns I amon	2	ļ	(4) Fog	
21.	Number Of Travel Lanes	Ø		(5) Rain and fog	
l	(1) One			(6) Sleet and fog	
1	(2) Two		İ		
l	(3) Three			(7) Other (e.g., smog, smoke, blowing sand or	
	(4) Four]	dust, etc.) (specify):	
	(5) Five				
	(6) Six			(9) Unknown	- 1
	(7) Seven or more				
	(9) Unknown		28.	Traffic Control Device	O
				(0) No traffic control(s)	
		` \	İ	(1) Traffic control signal (not RR crossing)	
22.	Roadway Alignment			•	
	(1) Straight		1	Regulatory	
	(2) Curve right		l	(2) Stop sign	- 1
	(3) Curve left		l	(3) Yield sign	
	(9) Unknown			(4) School zone sign	
				(5) Other regulatory sign (specify):	- 1
		\	1	to, other regulatory sign (specify):	l
23.	Roadway Profile	_	ŀ	(6) Westing sign (not BD service)	
	(1) Level			(6) Warning sign (not RR crossing)	I
	(2) Uphill grade (>2%)	į	Ī	(7) Unknown sign	İ
	(3) Hill crest			(8) Miscellaneous/other controls including RR	. 1
	(4) Downhill grade (>2%)			controls (specify):	
	(5) Sag				ı
	(9) Unknown	- 1		(9) Unknown	ì
	(5) Olikilowii	- 1			i
					_
24.	Roadway Surface Type	21	29.	Traffic Control Device Functioning	O
	(1) Concrete		,	(0) No traffic control device	
	(2) Bituminous (asphalt)			(1) Traffic control device not functioning	
	(3) Brick or block			(specify):	l
	(4) Slag, gravel, or stone	1			1
	(5) Dirt			(2) Traffic control device functioning properly	l
		ļ		(9) Unknown	
	(8) Other (specify):				
	(9) Unknown				

	PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
30. l	Driver's Distraction/Inattention To Driving 99	(10) Over the lane line on left side of travel lane (11) Over the lane line on right side of travel lane
((Prior To Recognition Of Critical Event)	(12) Off the edge of the road on the left side
	(00) No driver present	(13) Off the edge of the road on the right side
	(01) Attentive or not distracted (02) Looked but did not see	(14) End departure
`	ozy zookou bat ala met ees	(15) Turning left at intersection (16) Turning right at intersection
	Distractions	(17) Crossing over (passing through) intersection
((03) By other occupant(s), (specify):	(18) This vehicle decelerating
(04) By moving object in vehicle (specify):	(19) Unknown travel direction
		Other Motor Vehicle In Lane
(05) While talking or listening to cellular phone	(50) Other vehicle stopped
	(specify location and type of phone):	(51) Traveling in same direction with lower steady
(06) While dialing cellular phone (specify location	speed
	and type of phone):	(52) Traveling in same direction while decelerating (53) Traveling in same direction with higher speed
	07) While adjusting climate controls	(54) Traveling in opposite direction
	08) While adjusting chimate controls 08) While adjusting radio, cassette, CD (specify):	(55) In crossover
		(56) Backing (59) Unknown travel direction of other motor
(09) While using other device/object in vehicle	vehicle in lane
,	(specify): 10) Sleepy or fell asleep	
	11) Distracted by outside person, object, or event	Other Motor Vehicle Encroaching Into Lane
	(specify):	(60) From adjacent lane (same direction)—over left lane line
(12) Eating or drinking	(61) From adjacent lane (same direction)—over right
	13) Smoking related 97) Distracted/inattentive, details unknown	lane line
	98) Other, distraction (specify):	(62) From opposite direction—over left lane line
		(63) From opposite direction—over right lane line (64) From parking lane
(99) Unknown	(65) From crossing street, turning into same
	Pre-Event Movement (Prior to	direction
	Recognition of Critical Event) OO) No driver present	(66) From crossing street, across path (67) From crossing street, turning into opposite
	01) Going straight	direction
(O2) Decelerating in traffic lane	(68) From crossing street, intended path not known
	03) Accelerating in traffic lane	(70) From driveway, turning into same direction
0	04) Starting in traffic lane 05) Stopped in traffic lane	(71) From driveway, across path (72) From driveway, turning into opposite direction
	06) Passing or overtaking another vehicle	(73) From driveway, intended path not known
(*	07) Disabled or parked in travel lane	(74) From entrance to limited access highway
	08) Leaving a parking position	(78) Encroachment by other vehicle—details
	09) Entering a parking position 10) Turning right	unknown
	11) Turning left	Pedestrian, Pedalcyclist, or Other Nonmotorist
(12) Making a U-turn	(80) Pedestrian in roadway
	13) Backing up (other than for parking position)	(81) Pedestrian approaching roadway
	14) Negotiating a curve 15) Changing lanes	(82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway
	16) Merging	(specify):
(17) Successful avoidance maneuver to a previous	(84) Pedalcyclist or other nonmotorist approaching
	critical event 97) Other (specify):	roadway, (specify):
1	57) Other (specify).	location (specify):
(99) Unknown	
	Critical Precrash Event 66	Object or Animal
	Critical Precrash Event This Vehicle Loss of Control Due To:	(87) Animal in roadway (88) Animal approaching roadway
	01) Blow out or flat tire	(89) Animal—unknown location
	02) Stalled engine	(90) Object in roadway
(1	03) Disabling vehicle failure (e.g., wheel fell off)	(91) Object approaching roadway
11	(specify): 04) Non-disabling vehicle problem (e.g., hood flew	(92) Object—unknown location (98) Other critical precrash event (specify):
1,	up) (specify):	(30) Other childer preciasit event (specify):
{(05) Poor road conditions (puddle, pot hole, ice, etc.)	(99) Unknown
11	(specify):	
	06) Traveling too fast for conditions 08) Other cause of control loss (specify):	
((09) Unknown cause of control loss	

33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (98) Other action (specify): (99) Unknown 34. Pre-Impact Stability (0) No driver present (1) Tracking (2) Skidding longitudinally—rotation less than 30 degrees (3) Skidding laterally—clockwise rotation (4) Skidding laterally—counterclockwise rotation (7) Other vehicle loss-of-control (specify):	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown 36. Accident Type (Note: Applicable codes on back of this page) (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

Cate	Configur-		ACCIDENT TYPES	(includes intenti		
•	A Right Roadside	O1 DRIVE OFF	CONTROL	AVOID COLLIBION	04 SPECIFICS	05 SPECIFICS
Single Driver	Departure B Left	MOAD	TRACTION LOSS	WITH VEH., PED., ANIM.	OTHER CO	10
Single	Roadside Departure	DRIVE OFF	CONTROL/ TRACTION LOSS	AVOID COLLISION WITH VEH., PED., ANIM.	SPECIFICS OTHER	SPECIFICS UNKNOWN
-	C Forward		12 13	14	15	16
	Impact	PARKED VEH. 8	TA. OBJECT PEDESTR ANIMAL	DEPARTURE	SPECIFICS OTHER	SPECIFICS UNKNOWN
	D Rear-End		21 24 22 22 22 22 22 22	28	(EACH • 32)	(EACH • 33)
Trafficway Direction		8TOPPED 21. 22. 23	SLOWER 26, 26, 27	DECEL. 31 28, 30, 31	SPECIFICS OTHER	SPECIFICS UNKNOWN
Sane Trafficway Sanc Direction	E Forward Impact			COLLISION AVOID COLL	41 JSION SPECIFIC	
= ,	F Sideswipe Angle	TRACTION LOSS Y	AACTION LOSS WITH	(EACH - 48) SPECIFICS OTHER	(EAC	UNKNOWN H - 49) FICE UNKNOWN
1). H 10	G Head-On	LATERAL MOVE	(EACH • 62) SPECIPICS OTHER	(EACH + 53) SPECIFICS UNKNO	WN	
Same Traificway Oppiesie Directien	H Forward Impact			ID COLLISION AVOID COLL WITH OBJECT	61 IBION SPECIFIC	• 62)(EACH • 63) ES SPECIFICS UNKNOWN
5 111	l Sideswipe Angle	LATERAL MOVE	(EACH • 66) . SPECIFICS OTHER	(EACH + 67) SPECIFICS UNKNO	wn	
Change Trafficway Vehick Turning	J. Turn Across Path	INITIAL OPPOSITE	71 70	73 72 ICTIONS	EPECIFICE	
unge Tr thick Tu	K Turn Into	77 7		H ->1	OTHER (EACH •	UNKNOWN 84) (EACH • 85)
<i>2</i> ≥	Peth	TURN INTO SAME DI	78 /80 RECTION TURN	INTO OPPOSITE DIRECTIONS	SPECIFICE OTHER	SPECIFICS UNKNOWN
V Intersect ing Paths (Vehicle Damage)	L. Straight Paths	# 87 SS	es co	(EACH • 90) SPECIFICS OTHER	(EACH +	911 UNKNOWN
VI Miscel Inneous	M Backing Etc	, 1——	HER YEH. OBJECT	98 Other Accid 98 Unknown A 00 No Impect		

	3 - 7	,	rage
	OCCUPANT RELATED	4. Vehicle Cargo Weight	0,010
37.	Driver Presence in Vehicle	Code weight to 10 kilograms.	nearest
	(0) Driver not present	(000) Less than 5 kild	grams
	(1) Driver present (9) Unknown	(450) 4,500 kilogram	s or more
	15) OHKHOWH	(999) Unknown 5 lbs x 45	36 =// kgs
38.	Number of Occupants This Vehicle		
	(00-96) Code actual number of occupants for this vehicle	Source:	
	(97) 97 or more	ROLLOVE	R DATA
	(99) Unknown	. Rollover	00
39	Number of Occupant Forms Submitted 04	(00) No rollover (no ove	rturning)
00.		Rollover (primarily abou	t the longitudinal axis)
	AIR BAG RELATED	(01-16) Code the numb	er of quarter turns
40.	Is this an AOPS Vehicle?	(17) Rollover, 17 or (specify):	more quarter turns
	(0) No (includes unknown) (1) Yes - researcher determined	(98) Rolloverend-ov	er-end (i.e., primarily
	(2) VIN determined air bag system	about the latera (99) Rollover (overtu	
	(3) VIN determined automatic (passive) belts	(99) Nollover (overtu	rn), details unknown
	(4) VIN determined air bag and automatic (passive) belts	. Rollover Initiation Type	00
		(00) No rollover (01) Trip-over	
41.	Air Bag(s) Deployment, First Seat Frontal	(O2) Flip-over	
	(0) Not equipped or not available (1) No air bags deployed	(O3) Turn-over	
	Single Air Bag Vehicle	(04) Climb-over (05) Fall-over	
	(2) Driver air bag deployed	(06) Bounce-over	
	(3) Driver air bag, unknown if deployed	(07) Collision with anoth (08) Other rollover initia	tion type specify):
	Multiple Air Bag Vehicle (4) Driver side only deployed	(00) Other rollover mitta	non type specify.
	(5) Passenger side only deployed	(98) Rolloverend-over-	end
	(6) Driver and passenger side deployed	(99) Unknown rollover i	litiation type
	 Driver and passenger side unknown if deployed 	. Location of Rollover Initi	ation 🖒
	(8) Air bag(s) deployed, details unknown	(0) No rollover (1) On roadway	
	(9) Unknown	(2) On shoulder—paved	
42.	Air Bag(s) Deployment, Other Than First	(3) On shoulder—unpar	/ed
	Seat Frontal	(4) On roadside or divide (8) Rollover-end-over-	ded trafficway median
	(0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of	(9) Unknown	
	impact)	. Rollover Initiation Object	Contracted
	(2) Deployed inadvertently just prior to accident	(Note: Applicable codes on ba	Contacted \bigcirc \bigcirc \bigcirc
	Deployed, details unknown Deployed as a result of a noncollision event		
	during accident sequence (e.g., fire,	Location on Vehicle Whe Tripping Force Is Applied	re initial Principal
	explosion, electrical) (5) Unknown if deployed	(0) No rollover	
	(7) Nondeployed	(1) Wheels/tires (2) Side plane	
	(9) Unknown	(3) End plane	
	Specify type of "other" air bag present:	(4) Undercarriage (5) Other location on ve	shiple to a set a
		(5) Other location on ve	inicle (specify):
		(6) Non-contact rollove	forces (specify):
	VEHICLE WEIGHT ITEMS	(8) Rolloverend-over-e	nd
43.	Vehicle Curb Weight /, 6 5 0	Direction of Initial Roll (0) No rollover	<u> </u>
	Code weight to nearest		about the longitudinal
	10 kilograms. (045) Less than 450 kilograms	axis	· ·
	(610) 6,100 kilograms or more	(2) Roll left - primarily a axis	bout the longitudinal
	(999) Unknown 3.635 lbs x 4536 = 1.649 kgs	(8) Rolloverend-over-e	nd
•	The second secon	(9) Unknown roll directi	on
	Source:		-

	OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
r 4	Front Override/Underride (this Vehicle)	HIGHEST DELTA V
	Rear Override/Underride (this Vehicle)	58. Basis for Total (Resultant) Delta V
52.	(0) No override/underride, or not an end-to-end	(highest)
	impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride	(00) No vehicle inspection
	Override (see specific CDC)	Delta V Calculated
	[Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (1) 1st CDC	(01) Reconstruction program
	(2) 2nd CDC	-damage only routine (O2) Reconstruction program
	(3) Other not automated CDC (specify):	-damage and trajectory routine
		(O3) Missing vehicle algorithm
	Underride (see specific CDC)	Delta V Not Calculated
	[Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (4) 1st CDC	(04) At least one vehicle (which may be this
	(5) 2nd CDC	vehicle) is beyond the scope of an
	(6) Other not automated CDC (specify):	acceptable reconstruction program, regardless of collision conditions.
		•
	(7) Medium/heavy truck or bus override (of any	All vehicles within scope (CDC applicable) of
	configuration) (9) Unknown	reconstuction program but one of the collision
		conditions is beyond the scope of the
	HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	reconstruction program or other acceptable reconstruction technique, regardless of adequacy
	Values: (000)-(359) Code actual value	of damage data.
	(997) Noncollision	(05) Rollover
	(998) Impact with object	(06) Other non-horizontal forces
	(999) Unknown / Q /	(07) Sideswipe type damage
	Heading Angle For This Vehicle / 8 6	(08) Severe override (09) Yielding object
54.	Heading Angle For Other Vehicle 270	(10) Overlapping damage
	RECONSTRUCTION DATA	(11) All vehicle and collision conditions are within
55.	Towed Trailing Unit	scope of one of the acceptable reconstruction programs, but there is
	(0) No towed unit (1) Yes—towed trailing unit	insufficient data available, (specify):
	(9) Unknown	
56.	Documentation of Trajectory Data	(98) Other, (specify):
	for This Vehicle	
	(0) No (1) Yes	
E 7	Post Collision Condition of Tree or Pole	
57.	(For Highest Delta V)	
	(0) Not collision (for highest delta V) with	
	tree or pole (1) Not damaged	
	(2) Cracked/sheared	
	(3) Tilted <45 degrees	
	(4) Tilted ≥45 degrees (5) Uprooted tree	
	(6) Separated pole from base	
	(7) Pole replaced	
	(8) Other (specify):	
	(9) Unknown	

COMPUTER GENERAT	ED CRASH SEVERITY
59. Total Delta V 12. 7 Nearest kmph (highest) Nearest kmph (secondary)	63. Impact Speed 998
(NOTE: 000 means less than 0.5 kmph) (160)159.5 kmph and above (999)Unknown Highest 60. Longitudinal Component of Delta V	Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown
	DELTA V CONFIDENCE LEVEL
Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown Highest	64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
61. Lateral Component of Delta V = 00 4	OTHER SPEED ESTIMATE
Nearest kmph (highest) Nearest kmph (secondary) (NOTE:000 means greater than0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (_999) Unknown 62. Energy Absorption DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	Highest 65. Barrier Equivalent Speed C C Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown
IS MISSING VEHICLE ALGORITHM APPLICA	

ESTIMATED DELTA V	VEHICLE INSPECTION						
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection						

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

U.S. Department of Transportation National Highway Traffic Safety Administration

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

	Number - Stratum		61	9	J. Verno	CIE INGIII	Dei ,				<u></u>	
	VEHICLE IDENTIFICATION											
VIN 2 P 4 G H 2 5 3 8 R R Model Year 9 4 Vehicle Make (specify): Plymouth Vehicle Model (specify): VoyageR												
LOCATOR												
	ie end of the damag or an undamaged axi			vehicle's	damag	ged cent	er point	t or bun	nper cor	ner for	end	
impacts or an undamaged axle for side impacts. Specific Impact No. Location of Direct Damage Location of Field L Location of Max Crush												
01	BC +	0 30		acro	55 f	Front	- EN	D	C	1		
0:	3 35cm	B of G	enter -	> 51	4ME							
			SH PROF			METER	S					
	Identify the plane at				e taken	(e.g., a	t bumpe	r, abov	e bumpe	er, at si	II, above	
\$	sill, etc.) and label a	djustments	(e.g., free	space).					*			
	Measure C1 to C6 fi mpacts.	rom driver t	o passenge	r side in	front or	r rear im	pacts a	nd rear	to front	in side		
F	Free space value is o	defined as t	he distance	hetwee	n the ba	aseline a	ind the	original	body co	ntour t	aken at	
t	the individual C loca side taper, etc. Rec	tions. This	may includ	le the fol	lowing:	bumper	lead, b	umper t	aper, si	de proti	rusion,	
						•		ciusii.				
Specific	Jse as many lines/co		Damage	describ	e each	damage T	profile.	<u> </u>	T	1	1	
Impact Number	Plane of Impact C-Measurements	Width (CDC)	Max Crush	Field L	C,	C ₂	C ₃	C ₄	C _s	C ₆	± D	
01	@ Bumper	153		153	27	14	10	9	8	8	0	
	FREE SPACE				8	4	/	/	4	8		
	FINAL ADJ		20		19	10	9	8	4	0		
			.,				/					
61	Above Bamper FREE FINAL ADJ				19	22					0	
	FREE				16	12						
	FINAL ADJ				3	10						
						, ,						
									-1			
03	@ Bumper	9cm										
•												
•												
				1		 					1	

ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase						<u>285</u> cm
Overall Length	178.1	inches	x	2.54	=	<u>452</u> cm
Maximum Width	72.0					$\frac{182}{600}$
Curb Weight	3,635	pounds	x	0.4536	=	1,6 4 8 kg
Average Track	<u>61.0</u>	inches	x	2.54	=	154°cm
Front Overhang	33.9	inches	x	2.54	=	_86'cm
Rear Overhang	<u> 32.3</u>	inches	x	2.54	=	_ <u>82</u> cm
Undeformed End Width	60.6	inches	x	2.54	=	153 cm
Engine Size: cyl/displ.		cc	x	0.001	=	<u>3.0</u> L
V6 3,0 7-Passengers	181	CID	x	0.0164	=	3.0 L
1- Passengers Shipp	ing Weight	353		-		
	3	363	5	}		

..

SPECIAL CRASH INVESTIGATION ADDENDUM Color: {specify} Blue Repair Cost: \$ Submodel Designation: {specify} Transmission: {circle} Speed: 3-speed (4-speed) 5-speed | Other: Automatic) Manual Steering: {drde} (Power-assisted Manual Type: rack-and-pinion worm-and-gear | Other {please describe}: Brakes: {dirde} Power-assisted Manual Type: 4-wheel disc | 4-wheel drum | 4-wheel hydraulic (front disc, rear drum) Other: Observed Defects: {apocify} Fleet Type: {circle} (Private vehicle) Rental vehicle | Leased vehicle | Commercial vehicle | Other {please describe}:

VEHICLE DAMAGE SKETCH ORIGINAL SPECIFICATIONS TIRE-WHEEL DAMAGE WHEEL STEER ANGLES a. Rotation physically b. Tire (For locked front wheels or Wheelbase restricted deflated displaced rear axles only) RF ± ___ o Overall Length Maximum Width cm Curb Weight kg Within ± 5 degrees Average Track cm (1) Yes (2) No (8) NA (9) Unk. 86 cm **DRIVE WHEELS** Front Overhang ▼FWD □ RWD □ 4WD Rear Overhang cm TYPE OF TRANSMISSION **Undeformed End Width Approximate** Engine Size: cyl./displ. 1/6 Cargo Weight kg **MEASUREMENTS IN CENTIMETERS** Original POST-CRASH BC Bumper corner Stringline 87 POST-CRASH 5 L NOTES Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of strictions, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

PLYMOUTH Motor Cor			of Chr	velo	r Co	rn 🕌	*****	Mich	
PETMOOTTI MOLOI COI	р., ыч	131011		ensio		h . ser-20	Salta Salta	Factory	Factory
Type of Body		Wheel		nches		Ship.	Tax	List	Del'd
Pass. Cap.	Model	Base	Lt. x	Wt. ×	Ht.	Wt.	H.P.	Price	Price
Man. Trans. 5-speed; EPA Mileage	Estimate 2	4/29							
5-PS 3-dr HB Coupe w/23W	APPL24		171.9" x (57.3" x	53.1"	2673	18.93	9,092	9,597
5-PS 5-dr HB Sedan w/23W	APPL44	97.2"	171.9" x (67.3" x	53.1"	2547	18.93	9,492	9,997
Sundance Duster	ADDC04	07 24	171 0" (בי מי כי	E2 1"	2673	18.93	10,252	10,757
5-PS 3-dr HB Coupe w/23G 5-PS 5-dr HB Sedan w/23G	APPS24 APPS44		171.9" x (18.93	10,252	11,157
Auto. Trans. 3-speed; EPA Mileage									•
5-PS 3-dr HB Coupe w/24W	APPL24		171.9" x (18.93	9,649	10,154
5-PS 5-dr HB Sedan w/24W	APPL44	97.2"	171.9° x (67.3" x	53.1"	2547	18.93	10,049	10,554
Sundance Duster 5-PS 3-dr HB Coupe w/24G	APPS24	97 2"	171.9" x (67 3" x	53 1"	2673	18.93	10,809	11,314
5-PS 5-dr HB Sedan w/24G	APPS44		171.9" x (18.93	11,209	11,714
1994 Plymouth Sundance	EWD V6	cvl 3 0	litar SL	100	MDI	Gae En	aine/F	FA V12 vs	lva)
Bore & Stroke 3.586x2.992; Tax H.I									
Man. Trans. 5-speed; EPA Mileage				,		C			
Sundance Duster									
5-PS 3-dr HB Coupe w/27G	APPS24		171.9" x (2723	18.93 18.93	11,046 11,446	11,551 11,951
5-PS 5-dr HB Sedan w/27G Auto, Trans, 4-speed; EPA Mileage	APPS44 Estimate 2		171.9" x (01.3 X	33.1	2754	10.93	11,440	11,501
Sundance Duster	LJUITEU Z								
5-PS 3-dr HB Coupe w/28G	APPS24		171.9" x (18.93	11,776	12,281
5-PS 5-dr HB Sedan w/28G	APPS44		171.9" x (18.93	12,176	12,681
Options Sundance: Destination Char ter SHOC SMPI Gas Engine(EFA) (I	ges-\$505;	L4 Cyl 2:	ter SUP	TC TBI	Gas E	ngine(ED	M) (Base)-3∠350;Vb.0 d./Duster\-\$: y1 3.U N- .730: Air
Conditioning-\$900; Anti-Lock Brakes	-\$699: Cor	nsole (Ov	erhead)-\$	265: D	efroste	r Rear W	indow \$1	73: Door Lo	ck Power
(2-dr)-\$199 (4-dr)-\$240; Emission (0	Calif & NY)	\$102; Pa	int (Extra	Cost)	-\$97; A	WFM Ste	reo Radi	o(Base)-\$28	4 w/cas-
sette(Base)-\$504 (Duster)-\$220 w/E	qualizer (D	uster)-\$5	20 w/CD	(Duste	r)- \$ 690	; Speed C	Control-\$2	224; Tilt Stee	ering Col-
umn-\$148; Sunroof-\$379; Power Wil	ndows (Dus	ster) (2-dr)-\$265 (4	-dr)-\$3	331; Wh	eels (14"	AL) Base	-\$376 (15°) \$3402 (23)	AL)
Duster-\$328, Option Pkg Base (21W (24Y)-\$2388 Duster (23G)-Std (24G)	ŋ-5t0 (22V) L -\$5 57 <i>(</i> 270	ŋ-3007 (∠ 31- \$ 704 (*	(3 VV)-3∠ 00 28G)-\$15	D (∠4V\ 24 <i>(2</i> 3)	り-3043 HN-\$978	(211)-31: 3 <i>(</i> 24H)- 5 :	545 (221) 1535 <i>(27</i> 1)-32 102 (23 -0-\$177 <i>2 (2</i> 1	1)-3 1631 9H1-2502
									,
1994 Plymouth Voyager FV Bore & Stroke 3.44x4.09; Tax H.P.									
Man. Trans. 5-speed; EPA Mileage				. 0. 400		,			
5-PS 5-dr MiniVan w/21S	ASHL52	1123"	178.1" x	72.0" x	64.2"	3203	18.93	14,919	15,479
Auto, Trans. 3-speed 5-PS 5-dr MiniVan w/22T	ASHL52	1123"	178 1" v '	יים כד	64 2"	3221	18.93	15,733	16,293
			,				_	•	
1994 Plymouth Voyager FV Bore & Stroke 3.586x2.992; Tax H.I	VD V6 C	<u> </u>	er SOF	C SI	MPI G	as Eng	R1 CU ID	3 0 ltar	/e)
Auto. Trans. 3-speed; EPA Mileage			42@500	J, TOIQ	ue 1/3	@2+0Q_1	OT CU.III.	, 3.0 IREI	
7-PS 5-dr MiniVan SE w/24A	ASHH52		178.1" x	72.0° x	64.3"	3306	30.66	18,139	18,699
7-PS 5-dr MiniVan LE w/24J	ASHP52					3514	30.66	21,963	22,523
7-PS 5-dr MiniVan Grand w/24S	ASHL53	119.3"	192.8" x	72.0° x	64.8"	3472	30.66	18,178	18,738
7-PS 5-dr MiniVan LE w/26K	ASHP52	11222	178.1" x	72 0"	64.2"	2525	20.66	22 467	22 027
7-PS 5-dr MiniVan LE W/26K 7-PS 5-dr MiniVan LX w/26M	ASHP52						30.66 30.66	22,467 23,101	23,027 23,661
_									
1994 Plymouth Voyager V6									
Bore & Stroke 3.66x3.19; Tax H.P. 3 Auto, Trans. 4-speed; EPA Mileage						3000, 201	Cu.iii., S	.3 IILEI	
Voyager MiniVan	Louis Dic (20 (71110)	,	•				
7-PS 5-dr MiniVan SE w/26B	ASHL52	112.3"	178.1" x	72.0" x	64.3"	3292	32.15	18,550	19,110
7-PS 5-dr MiniVan LX w/28M	ASHP52	112.3"	178.1" x	72.0" x	64.3"	3603	32.15	23,203	23,763
Grand Voyager MiniVan FWD	ACUUCO	440.0"	400.00	72 C·	C4 0"	2500	22.45	10.304	10.004
7-PS 5-dr MiniVan SE w/28A 7-PS 5-dr MiniVan LE w/28J	ASHH53 ASHP53					3580 3684	32.15 32.15	19,304 22,883	19,864 23,443
Grand Voyager MiniVan AWD	MOI IF DO	113.3	132.0 X	, Z.U X	 .0		JZ. 1J		20,770
7-PS 5-dr MiniVan SE w/28A	ASPH53	119.3"	192.8" x	72.0" x	64.8"	3915	32.15	21,982	22,542
7-PS 5-dr MiniVan LE w/28J	ASPP53	119.3"	192.8" x	72.0" x	64.8"	4021	32.15	25,560	26,120
1994 Plymouth Voyager V6	5 cyl 3.8	liter OF	IV SMP	l Gas	s Ena	ine(EGI	H)(12 v	alve)	
Bore & Stroke 3.779x3.425; Tax H.I	P. 34.27; S	AE H.P. 1	62@4400	0; Torq	ue 213				
Auto, Trans. 4-speed; EPA Mileage	Estimate (FWO) 16/	/22 (AWD) 15/20)				
Grand Voyager MiniVan FWD 7-PS 5-dr MiniVan LE w/29K	Acunes	110 3"	100 0" - 1	72 ~	64.0"	200	24.27	22.404	24.054
Grand Voyager MiniVan AWD	ASHP53	119.3	192.0" X	7 Z.U`` X	04.6	3688	34.27	23,491	24,051
7-PS 5-dr MiniVan LE w/29K	ASPP53	119.3"	192.8" x	72.0" x	64.8"	4025	34.27	26,168	26,728

			CDC	WORKSH	EE	Т				
·			CODES FOR	OBJECT CC	тис	ACTED				
(01-30)) — Vehicle N	umber			-	Fence Wall				
Noncol	linian						_			
		rollover (exclude				Building	r culvert			
1	Rollover—en	·	s end-over-e			Ground				
	Fire or explo									
	Jackknife	Sion				Fire hyd	arant			
		nit damage (spec	.: .	-		Curb				
(35)	Other intrau	iit damage (spec	:i(y):			Bridge Other f	ixed object	(specify):		
(36)	Noncollision	iniury		,,,	301	Other	ixeu object	(specify).		
(38)	Other nonco	llision (specify):		(6	39)	Unknov	vn fixed obj	ect		
(39)	Noncollision	— details unkno	wn	Colli	isior	with N	onfixed Obj	ect t truck, van		
Collision	n With Fixed	Ohiect		()	, 0,	vahicle	not in-trans	t truck, van	, or other	
(41)	Tree (< 10 c	m in diameter)		17					t in-transport	
		om in diameter)				Pedestr		k or bus no	t in-transport	
	Shrubbery or					Cyclist				
	Embankment			(7	7.01 7.41	Other n	or Cycle	or conveyar		
								or conveyar		
(45)	breakaway p	ole or post (any	diameter)				occupant			
Monbro	skaway Dala .	na Dana		-		Animal				
	akaway Pole (Train				
		(≤ 10 cm in diam		(78) Trailer, disconnected in transport						
(51)	diameter)	(> 10 cm but ≤	30 cm in	(79) Object fell from vehicle in-transport(88) Other nonfixed object (specify):						
(52)	•	(> 30 cm in diar	ma*a=1	(8	(8)	Other no	ontixea obje	ct (specify)	:	
		diameter unknov		(89) Unknown nonfixed object						
	Concrete traf			(9	8)	Other ev	ent (specify	/):		
(55) (56)	Impact attended Other traffic	uator barrier (includes	ouardrail)				n event or o			
	1		=	(3	J ,	OTIKITOW	ii event or t	Doject		
		DEFORMA	TION CLASS	IFICATION E	BY E	VENT N	UMBER	***************************************		
Accident		(4) (0)			_	(4)	(5)			
Event		(1) (2) Direction	laaramaatal	(2)	•	pecific	Specific	_ (6)		
Sequence	Object	of Force	Incremental Value of	(3) Deformation		Lateral	Vertical or Lateral	Type of	(7)	
Number	Contacted	(degrees)	Shift	Location		cation	Location	Damage Distribution	Deformation Extent	
01	02	- 30		F		7)	F	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>		
03	61	000		F	•	$\frac{\mathcal{D}}{\mathcal{D}}$	<u>~</u> _	$\frac{\omega}{\Delta}$	01	
$\frac{1}{2}$					-			 ,		
04	50	000		E	-	R		\mathcal{L}	01	
					-					
	 .				-					
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					-					
				-	-					
					-					
					-					

COLLISION DEFORMATION CLASSIFICATION											
HIGHEST DELTA "V"											
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent				
4. <u>0</u> <u>1</u>	5. <u>D</u> 2	6	7. <u>F</u>	8	9. <u>E</u>	10. <u>W</u>	11. <u></u>				
Second Highest Delta "V"											
12. <u>04</u>	13. <u>5</u> <u>0</u>	14. 1 2	15. <u>F</u>	16. <u> </u>	17. <u>८</u>	18. <u>N</u>	19				
		CRUS	H PROFILE	IN CENTIM	ETERS						
The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN CENTIMETERS.)											
HIGHEST	DELTA "V"										
20. 	21. 				C ₅	C ₆	22. ±D				
154	019	010	609	008 0	040	<u> </u>	000				
Second Hi	ghest Delta "V	•									
23. L	24. 		C ₃		C ₅	Σ ₆	25. ±D				
			·			+					
26. Undeformed End Width (Coded when highest severity impact is an end plane impact.) Code to the nearest centimeter (250) 250 centimeters or more (998) No highest severity end plane impact (999) Unknown 27. Direct Damage Width (For highest severity impact) Code to the nearest centimeter (250) 250 centimeters or more (185) 185 centimeters or more (185) 185 centimeters or more (185) 185 centimeters or more (185) 185 centimeters or more (185) 185 centimeters or more (185) 185 centimeters or more (185) 185 centimeters or more (185) 185 centimeters or more (185) 185 centimeters or more											

		FUEL SYSTEM
30. Are CDCs Documented but Not Coded on The	1	35. Location of Fuel Tank-1 Filler Cap 36. Location of Fuel Tank-2 Filler Cap
Automated File? (0) No (1) Yes		(0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane
31. Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 32. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified	<u></u>	(3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane (7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown 37. Type of Fuel Tank-1 38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic
(o) Charletti ii Venicie is modnied		(9) Unknown
FIRE OCCURRENCE		39. Location of Fuel Tank-1
33. Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown	0	40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear
34. Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown	0	axle) centered (5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): (9) Unknown 41. Damage to Fuel Tank-1 42. Damage to Fuel Tank-2 (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): (9) Unknown

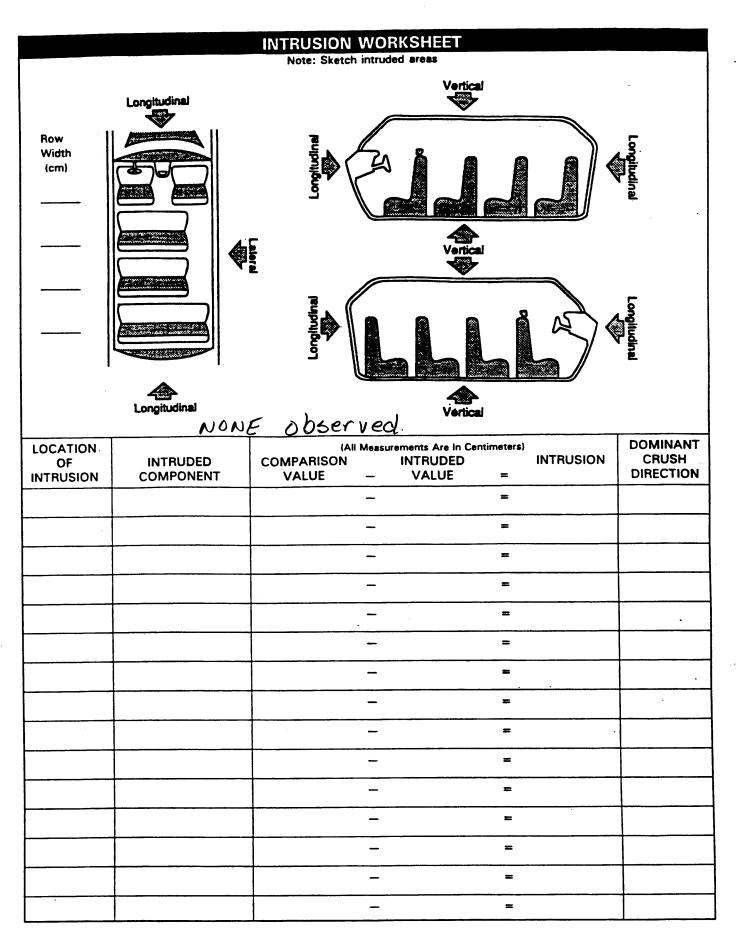
43.	Leakage Location of Fuel System-1	1	47. Is This Vehicle Equipped With More Than Two Fuel Tanks?
44.	Leakage Location of Fuel System-2	0	(0) No (one or two tanks only)
	(0) No fuel tank		
	(1) No fuel leakage		Yes - More Than Two Tanks
	•		(1) Yes <u>no damage</u> to any tank or filler
	Primary Area Of Leakage		cap and no fuel system leakage
	(2) Tank		(2) Yes no damage to any tank or filler
	(3) Filler neck		cap but there is fuel system leakage
	(4) Cap		(specify leakage location):
	(5) Lines/pump/filter		(opcony loakago location).
	(6) Vent/emission recovery		(3) Yes damage to an additional tank or
			filler cap and there is fuel system leakage
	(8) Other (specify):		
	(9) Unknown		(specify the following):
			Type of tank
		1	Tank location
45.	Fuel Type-1		Filler cap location
	_	_	Tank damage
46.	Fuel Type-2	0	Location of leakage
			Type of fuel
	Single Fuel Type		Type of fuel(9) Unknown if more than two tanks
	(00) No fuel tank		
	(01) Gasoline		·
	(02) Diesel		
	(03) CNG (Compressed Natural Gas)		COMMENTS
	(04) LPG (Liquid Petroleum Gas) also		
	known as Propane		
	(05) LNG (Liquid Natural Gas)		
	(06) Methanol (M100 or M85)		

	(07) Ethanol (E100 or E85)		
	(08) Other (Hydrogen or others) (specify):		
	Flora to Decree and an Elemanta (Calan		
	Electric Powered or Electric/Solar		
	Powered Vehicles		
	(10) Lead Acid Battery		
	(11) Nickel-Iron Battery		
	(12) Nickel-Cadmium Battery		
	(13) Sodium Metal Chloride Battery		
	(14) Sodium Sulfur Battery		
	(18) Other (Specify):	_	
	(98) Other Hybrid (specify):		
	(99) Unknown fuel type		
	•		
		_	
	*** 0700 15715 000 1551		
	STOP: IF THE CDS APPL	ICABL	LE VEHICLE WAS NOT TOWED ***
		(0) (1	40-0)
		(GV1	10=0)
	DO HOT 001151		MITTERIOR VEHICLE SOCIE
	DO NOT COMPLETE	THE	INTERIOR VEHICLE FORM.

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

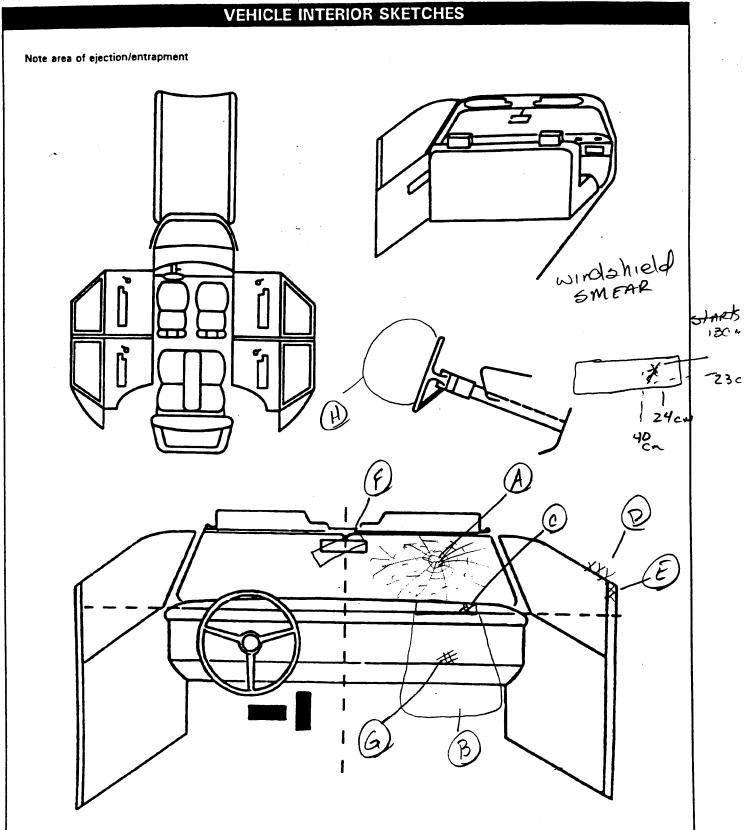
Administration INTERIOR VE	CRASHWORTHINESS DATA SYSTE
10	GLAZING
1. Primary Sampling Unit Number	Type of Window/Windshield Glazing
2. Case Number - Stratum 9612	15. WS / 16. LF 4 17. RF 4 18. LR 4 19. RR
3. Vehicle Number	20. BL 4 21. Roof 0 22. Other 4
INTEGRITY	
4. Passenger Compartment Integrity (00) No integrity loss Yes, Integrity Was Lost Through	 (0) No glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (original) (4) AS-2 — Tempered-with after market tint (5) AS-3 — Tempered-tinted (with additional after market tint)
(01) Windshield	(6) AS-14 — Glass/Plastic
(02) Door (side) (03) Door/hatch (back door)	(7) Glazing removed prior to accident (8) Other (specify):
(04) Roof	(o) Other (epodity).
(05) Roof glass	(9) Unknown
(06) Side window (07) Rear window (backlight)	Window Precrash Glazing Status
(08) Roof and roof glass	1
(09) Windshield and door (side)	23. WS <u>/</u> 24. LF <u>2</u> 25. RF <u>2</u> 26. LR <u>2</u> 27. RR <u>2</u>
(10) Windshield and roof (11) Side and rear window (side window and backlight)	28. BL <u>/</u> 29. Roof <u>O</u> 30. Other <u>2</u>
(12) Windshield and side window (13) Door and side window	(O) No glazing
(98) Other combination of above (specify):	(1) Fixed
	(2) Closed
(99) Unknown	(3) Partially opened (4) Fully opened
	(7) Glazing removed prior to accident
	(9) Unknown
Door, Tailgate or Hatch Opening	Glazing Damage from Impact Forces
5. LF <u>/</u> 6. RF <u>/</u> 7. LR <u>D</u> 8. RR <u>/</u> 9. TG/H <u>/</u>	31. WS / 32. LF / 33. RF / 34. LR / 35. RR
(0) No door/gate/hatch	36. BL / 37. Roof O 38. Other /
(1) Door/gate/hatch remained closed and operational	
(2) Door/gate/hatch came open during collision	(0) No glazing
(3) Door/gate/hatch jammed shut (8) Other (specify):	(1) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces
(6) 0(:16. (6)00:17).	(3) Glazing in place and holed from impact forces
(9) Unknown	(4) Glazing out-of-place (cracked or not) and not holed from impact forces
	(5) Glazing out-of-place and holed from impact forces
Damage/Eniluse Associated with Door Tailgate of Hetah	(6) Glazing disintegrated from impact forces
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	(7) Glazing removed prior to accident (9) Unknown if damaged
10. LF <u>0</u> 11. RF <u>0</u> 12. LR <u>0</u> 13. RR <u>0</u> 14. TG/H <u>0</u>	Glazing Damage from Occupant Contact
(0) No door/gate/hatch or door not opened	39. WS 3 40. LF / 41. RF / 42. LR / 43. RR /
Door, Tailgate or Hatch Came Open During Collision (1) Door operational (no damage)	44. BL 45. Roof 0 46. Other /
(2) Latch/striker failure due to damage	(O) No glazing
(3) Hinge failure due to damage	(1) No occupant contact to glazing
(4) Door structure failure due to damage	(2) Glazing contacted by occupant but no glazing damage (3) Glazing in place and cracked by occupant contact
(5) Door support (i.e., pillar, sill, roof side rail,	(4) Glazing in place and cracked by occupant contact
etc.) failure due to damage	(5) Glazing out-of-place (cracked or not) by occupant
(6) Latch/striker and hinge failure due to damage (8) Other failure (specify):	contact and not holed by occupant contact
	(6) Glazing out-of-place by occupant contact and holed by occupant contact
(9) Unknown	(7) Glazing removed prior to accident
	(8) Glazing disintegrated by occupant contact
	(9) Unknown if contented by accurant



			occu	PANT AF	EA INTRUSION
Note:	If no intrusion	ns, leave varia	bles IV47-I\	/86 blank.	INTRUDING COMPONENT
	, 177. - \$ \$\$		Alaminuda	Dominant	Interior Components (01) Steering assembly
	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Crush Direction	(02) Instrument panel left
<u> </u>	MERUSION	Component	Or tittidatori	Direction	(O3) Instrument panel center
					(04) Instrument panel right
1st	47	48.	49.	50	(05) Toe pan
	··· 	· · · · · · · · · · · · · · · · · · ·	- `:		(06) A (A1/A2)-pillar
]					(07) B-pillar
					(08) C-pillar
2nd	51	. 52	_ 53	54	(09) D-pillar
					(10) Side panel - forward of the A1/A2-pillar (11) Door panel (side)
l					(12) Side panel - rear of the B-pillar
3rd	55	56.	57.	58.	(13) Roof (or convertible top)
					(14) Roof side rail
I					(15) Windshield
	50	00	04		(16) Windshield header
4th	59	, bu	_ 61	02	(17) Window frame
					(18) Floor pan (includes sill)
1					(19) Backlight header
5th	63	64.	65.	66.	(20) Front seat back (21) Second seat back
		· <u></u>			(21) Second seat back (22) Third seat back
ļ					(23) Fourth seat back
0	67	60	00	70	(24) Fifth seat back
oth	67	08		/0	(25) Seat cushion
					(26) Back door/panel (e.g., tailgate)
					(27) Other interior component (specify):
7th	71	72.	73.	74.	
1					
1					Exterior Components
044	75	76	77	70	(30) Hood (31) Outside surface of this vehicle (specify):
o in	75	. /0	- ′′·—	/0	1017 Outside surface of this vehicle (specify).
					(32) Other exterior object in the environment
					(specify):
9th	79	80	81	82	(33) Unknown exterior object
					(97) Catastrophic
					(98) Intrusion of unlisted component(s)
10-6	02	0.4	OE	96	(specify):
Toth	83	. 04	_ 85	80	(99) Unknown
LOCA	TION OF INTE	RUSION			MAGNITUDE OF INTRUSION
1					(1) ≥ 3 centimeters but < 8 centimeters
	nt Seat	Fourth			(2) ≥ 8 centimeters but < 15 centimeters
	11) Left	(41)			(3) ≥ 15 centimeters but < 30 centimeters
	12) Middle		Middle		(4) ≥ 30 centimeters but < 46 centimeters
l (13) Right	(43)	Right		(5) ≥ 46 centimeters but < 61 centimeters
Sec	ond Seat	(97)	Catastroph	nic	(6) ≥ 61 centimeters
	21) Left		Other encl		(7) Catastrophic
(:	22) Middle	,	area (spec		(9) Unknown
(:	23) Right	_			
	C	(99)	Unknown		DOMINANT CRUSH DIRECTION
	rd Seat 31) Left				(1) Vertical
	31) Lett 32) Middle				(2) Longitudinal
	33) Right				(3) Lateral
]					(7) Catastrophic
1					(9) Unknown
					<u> </u>

	STEERING	RIM/SPOKE DEFO	DRMATION			
	(All Measurements Are in Centimeters)					
COMPARISON VALL	JE –	DAMAGE VALUE	=	DEFORMATION		
	No-	Deforma	T=00			
			=			
	_		=			
	_		=			
		,				
		-				
		·				

STEERING COLUMN	INSTRUMENT PANEL
87. Steering Column Type	2 92. Odometer Reading <u>0 9 4,000</u>
(1) Fixed column (2) Tilt column (3) Telescoping column	kilometers Code to the nearest 1,000 kilometers (000) No odometer
(4) Tilt and telescoping column (8) Other column type (specify): (9) Unknown	(001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown
(9) Ohkhown	
88. Tilt Steering Column Adjustment (0) No tilt steering column (1) Full up	93. Instrument Panel Damage from Occupant Contact?
(2) Between full up and center (3) Center (4) Between center and full down	(0) No (1) Yes (9) Unknown
(5) Full down (9) Unknown	94. Type of Knee Bolster Covering (0) No knee bolster
89. Telescoping Steering Column Adjustment (0) No telescoping steering column	(1) Padded (2) Rigid plastic (8) Other (specify):
(1) Full back (2) Between full back and midpoint (3) Midpoint (4) Between midpoint and full forward	(9) Unknown 95. Knee Bolsters Deformed from Occupant Contact?
(5) Full forward (9) Unknown	(0) No knee bolster (1) No deformation (2) Yes - deformation
90. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter	96. Did Glove Compartment Door Open During Collision(s)?
(00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more	(0) No glove compartment door (1) No - door did not open (2) Yes - door opened
(98) Observed deformation cannot be measure (99) Unknown	97. Adaptive (Assistive) Driving Equipment
91. Location of Steering Rim/Spoke	(0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.)
(00) No steering rim deformation Quarter Sections	[] Hand controls for braking/acceleration [] Steering control devices (attached to OEM steering wheel
(01) Section A (02) Section B (03) Section C	[] Steering knob attached to steering wheel [] Low effort power steering (unit or device) [] Replacement steering wheel (i.e., reduced diameter)
(04) Section D Half Sections	[] love stick exercise controls
(05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke	Additional or relocated switches (specify):
(09) Complete steering wheel collapse (10) Undetermined location	[] Raised roof [] Wall-mounted head rest (used behind wheelchair)
(99) Unknown	[] Other adaptive device (specify):



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

		POIN	TS OF OCC	UPANT CONTACT		
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical E	Evidence	Confidence Level of Contact Point
A	(20)	02	HEAD/FACE		MEAR	1
В	180	02	NECK/FACE		ansters	7
С	185	02	NEUK/FACE	SKINTRANS	1 10 1	/
D	204	03		GREAGY S	MEARS	2
Е	104	02		mucous	DRIP	1-2
F	062			Tilted	· •	3
G	613	02	Les?	scuff		/
Н	170	01	FACE	LIPSTICK -	TRANSfer	
<u> </u>						
J						
<u>K</u>						
L						
<u> </u>						
N						
selector le attachmei et radio O8) Cellular te radio O9) Add on et deck, air et deck, air et le selow 11) Center instrubelow 12) Right instrubelow 13) Glove con 14) Knee bols 15) Windshiel more of the header, A instrumen steering a side only) 16) Windshiel more of the header, A instrumen (passenge	plephone or CB quipment(e.g., tape conditioner) ument panel and strument panel and rument panel and npartment door ter d including one or he following: front (A1/A2)-piller, t panel, mirror, or ssembly (driver	(056) Left sid (057) Left sid (058) Left sid (059) Left sid includin followir sill, A (or roof (060) Other k (specify RIGHT SIDE (101) Right si excludin armrest (102) Right si armrest (103) Right si (104) Right B (105) Other ri (106) Right si (107) Right si (107) Right si (108) Right si (109) Right si (109) Right si (109) Right si (109) Right si (109) Right si (109)	eft pillar (specify): le window glass le window frame le window sill le window glass le window glass le window glass le window glass le window glass le window glass le window glass le window le w	(155) Head restraint system (160) Other occupants (specify): (161) Interior loose objects (162) Child safety seat (specify): (163) Other interior object (specify): AIR BAG (170) Air bag-driver side (175) Air bag compartment cover-driver side (180) Air bag compartment cover-driver side (185) Air bag compartment cover-passenger side (190) Other air bag (specify) (195) Other air bag compartment cover (specify) ROOF (201) Front header (202) Rear header (203) Roof left side rail (204) Roof right side rail	(401) Hand controls braking/accelei (402) Steering control (attached to Ol wheel) (403) Steering knob is steering wheel (405) Replacement si (i.e., reduced di (406) Joy stick steeri (407) Wheelchair tie-(408) Modification to (apecify): (409) Additional or reswitches, (specify): (410) Raised roof (411) Wall mounted is (used behind with (412) Other adaptive (specify):	retion of devices EM steering attached to teering wheel liameter) ing controls downs seat belts, plocated cify): head rest sheel chair)
19) Other from	nt object (specify):	followir sill, A (, or roof	ng: frame, window A1/A2)-pillar, B-pillar, side rail. Ight side object	(205) Roof or convertible top FLOOR (251) Floor (including toe pan) (252) Floor or console mounted transmission lever, including console (253) Parking brake handle (254) Foot controls including parking brake	CONFIDENCE LEVEL POINT (1) Certain (2) Probable (3) Possible	OF CONTACT

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below.

Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page. If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page. Center Right Left 6 Availability Evidence of usage Used in this crash? R Proper Use Ŧ Failure Modes Anchorage Adjustment Availability Evidence of usage SECOND Used in this crash? Proper Use Failure Modes Anchorage Adjustment Availability ひひ Ø 00 Evidence of usage 0 00 00 00 T Used in this crash? Н 0 0 0 **Proper Use** E 0 ව Failure Modes R Anchorage Adjustment Shoulder Belt Upper Anchorage Adjustment Proper Use of Manual (Active) Belts Manual (Active) Belt System Availability No shoulder belt None used or not available (0) None available (0) No upper anchorage adjustment for (1) (1) Belt removed/destroyed (1)Bett used properly (2) Belt used properly with child safety shoulder belt (2) Shoulder belt (3) Lap belt seat Adjustable shoulder Belt Upper (4) Lap and shoulder belt (5) Belt available - type unknown Belt Used Improperly Anchorage In full up position Shoulder belt worn under arm (2) (3) In mid position Integral Belt Partially Destroyed (4) Shoulder belt worn behind back or (3) (4) In full down position (6) Shoulder belt (lap belt seat (5) Position unknown Belt worn around more than one (5) destroyed/removed) (7) Lap belt (shoulder belt Unknown if position has adjustable destroyed/removed) (6) Lap belt worn on abdomen upper anchorage adjustment Lap beit or lap and shoulder belt (8) Other belt (specify): (7)used improperly with child safety seat (specify): (9) Unknown Other improper use of manual belt (8) Manual (Active) Belt System Use system (specify): (00) None used, not available, or belt removed/destroyed (9) Unknown (01) Inoperable (specify): Shoulder belt Manual (Active) Belt Failure Modes During (02)Accident (03)Lap belt Lap and shoulder belt No manual belt used or not available (04)(0) No manual belt failure(s) Belt used - type unknown (1) (05) Torn webbing (stretched webbing Other belt used (specify): (08)(2) not included) Shoulder belt used with child safety (3) Broken buckle or latchplate (12)Upper anchorage separated (4) Lap belt used with child safety seat Other anchorage separated (13)(5) (specify): Lap and shoulder belt used with (14)child safety seat (6) Broken retractor Belt used with child safety seat (7) Combination of above (specify): (15)type unknown (18) Other belt used with child safety (8) Other manual belt failure (specify):

Unknown

(9)

seat (specify):

Unknown if belt used

(99)

National Accident Sampling System-Crashworthiness Data System: Interior Vehicle Form **AUTOMATIC RESTRAINTS** NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. **AIR BAGS** Left Front Right Front Other Availability/Function R Deployment Failure Air Bag System Availability/Function Air Bag(s) Deployment, Other Than First Frontal Air Bag System Deployment Seat Frontal (This Occupant Position) (This Occupant Position) (0) Not equipped/not available (0) Not equipped/not available (0) Not equipped with an <u>"other"</u> air bag (1) Air bag (1) Deployed during accident (as a result (1) Deployed during accident (as a result of impact) Non-functional of impact) (2) Deployed inadvertently just prior to (2) Air bag disconnected (specify): (2) Deployed inadvertently just prior accident to accident (3) Deployed, details unknown (3) Air bag not reinstalled (3) Deployed, accident sequence (4) Deployed as a result of a (9) Unknown undetermined noncollision event during accident (4) Deployed as a result of a noncollision event during accident sequence Are There Indications of Air Bag sequence (e.g., fire, explosion, System Failure? (This Occupant Position) (e.g., fire, explosion, electrical) electrical) (5) Unknown if deployed (0) Not equipped/not available (5) Unknown if deployed (7) Nondeployed (1) No (7) Nondeployed (9) Unknown (9) Unknown (2) Yes (specify): (9) Unknown **AUTOMATIC BELTS** Left Right (L) Availability/Function F Use R Type S **Proper Use** Failure Modes Automatic (Passive) Belt System Proper Use of Automatic (Passive) Belt **Automatic (Passive) Belt Failure Modes** Availability/Function **During Accident** System (0) Not equipped/not available (0) Not equipped/not available/not used (0) Not equipped/not available/not in use (1) 2 point automatic belts (1) Automatic belt used properly (1) No automatic belt failure(\$) Automatic belt used properly with (2) Torn webbing (stretched webbing not (2) 3 point automatic belts (3) Automatic belts - type unknown child safety seat included) (3) Broken buckle or latchplate Automatic Belt Used Improperly Non-functional (4) Upper anchorage separated (4) Automatic belts destroyed or (3) Automatic shoulder belt worn under (5) Other anchorage separated (specify): rendered inoperative (9) Unknown (4) Automatic shoulder belt worn behind (6) Broken retractor back (7) Combination of above (specify): Automatic (Passive) Belt System Use (8) Other automatic belt failure (specify): (5) Automatic belt worn around more (0) Not equipped/not available/destroyed than one person or rendered inoperative (6) Lap portion of automatic belt worn (9) Unknown (1) Automatic belt in use on abdomen (2) Automatic belt not in use (manually (7) Automatic lap and shoulder belt or disconnected, motorized track automatic shoulder belt used inoperative) improperly (3) Automatic belt use unknown with child safety seat (specify): (9) Unknown (8) Other improper use of automatic belt Automatic (Passive) Belt System Type

(specify):

(9) Unknown

(0) Not equipped/not available

(1) Non-motorized system

Motorized system

(2)

(9) Unknown

FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
Type of air bag?		
Flaps open at tear points?	· 2	d
Flaps damaged?		
Air bag damaged?	01	
Source of air bag damage	01	0
Air bag tethered?		<u> </u>
Air bag have vent ports?	2	
Other occupant contact air bag?		
Occupant wearing eyewear?		

Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed
- (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps): $\frac{\partial}{\partial ea.4}$ wide
 - B) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- 7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

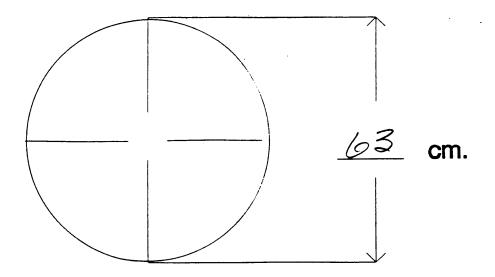
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was This Occupant Wearing Eye-wear?

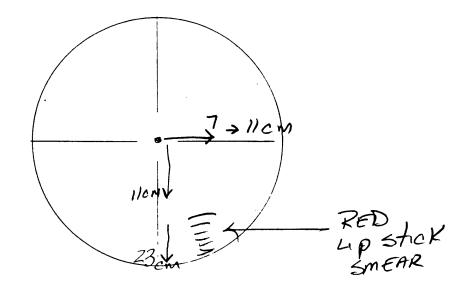
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



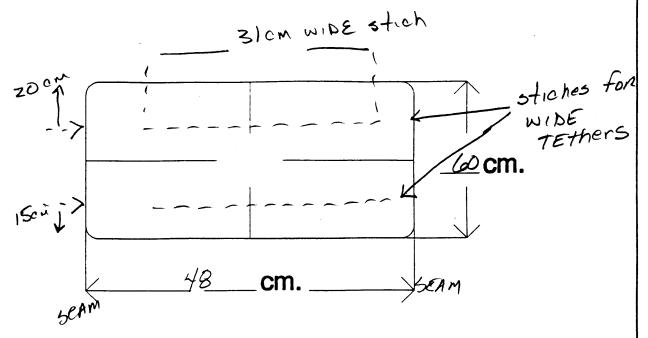
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)



DRIVER AIR BAG S	KETCHES (Cont'd)
3. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap width (W _U) 17 width (W _L) 18 height (H _U) 6 height (H _L) 7	
4. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	5. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
6. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS 11,12,12 10,12,13 9,3 8,4 7,6 5	Both vent Diameters are 2.5 cm

PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)

Post ?

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PASSENGER AIR BAC	SKETCHES (Cont'd)
3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE) a. Flap width (W) 32.5 height (H) 14.5 YX = SKIN TEANSE	4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap width (W _U) height (H _U) H, H, H, H, H, H, H, H, H, H
5. SKETCH OF OTHER TYPE OF AIR BAG MODULE	6. SKETCH OF OTHER TYPE OF AIR BAG VENT
FLAP AND SIZE	PORTS
·	
7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS	
	NO VENTS
10 11 12 1 2	
9 3	
8 7 6 5 4	
N/A	
, , , , , , , , , , , , , , , , , , ,	

"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES 1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)				
1. SKETCH DAMAGE AND CONTACT EV	IDENCE ON "OTHER" AIR BAG (Front)			
,				
·				
2. SKETCH DAMAGE AND CONTACT EV	IDENCE ON "OTHER" AIR BAG (Back)			
·				

"OTH	IER" AIR BAG SKET	CHES (Cont'd)	
. SKETCH AIR BAG MODULE FLAP AND	SIZE OR OPENING FOR	AIRBAG	
			•
			,
4. SKETCH AIR BAG VENT PORTS			
•			
·			

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F I R S	Head Restraint Type/Damage	1		/
	Seat Type	62		62
	Seat Performance	1		1
	Seat Orientation	/		
T	Seat Track Position	6		6
	Seat Back Incline Pre/Post Impact	14		14
	Head Restraint Type/Damage	0	0	
c	Seat Type	03	03	
S	Seat Performance	1		
CO	Seat Orientation	/		
N D	Seat Track Position	/	1	
	Seat Back Incline Pre/Post Impact	14	14	
	Head Restraint Type/Damage	Ó	0	
T H I R	Seat Type	05	05	05
	Seat Performance			
	Seat Orientation		<u> </u>	1
D	Seat Track Position	7	2	2
	Seat Back Incline Pre/Post Impact	14	14	14
	Head Restraint Type/Damage			
Q	Seat Type			
H ·	Seat Performance			
E R	Seat Orientation			
	Seat Track Position			
	Seat Back Incline Pre/Post Impact	-		

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE
(I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

BACK seat Folded down upon inspection

HEAD RESTRAINTS/SEAT EVALUATION

Head Restraint Type/Damage by Occupant at This Occupant Position Position) (O) No head restraints (1) Integral — no damage(2) Integral — damaged during

- accident
- (3) Adjustable no damage
- (4) Adjustable damaged during accident
- (5) Add-on no damage (6) Add-on - damaged during
- accident Other
- Specify): (9) Unknown

Seat Type (this Occupant Position) (00) Occupant not seated or no

- seat (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- Bench with folding back(s)
- Split bench with separate (06) back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant

- (0) Occupant not seated or no seat
- No seat performance failure(s) (1)
- Seat adjusters failed (2) (3) Seat back folding locks or "seat back" failed (specify):
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- Side facing seat (outward) 141
- (8) Other (specify):
- (9) Unknown

Seat Track Adjusted Position Prior To impact

- (0) Occupant not seated or no seat
- (1) Non-adjustable seat track

Adjustable Seat Track

- (2) Seat at forward most track position
- (3) Seat between forward most and middle track positions
- (4) Seat at middle track position
- (5) Seat between middle and rear most track positions
- (6) Seat at rear most track position
- (9) Unknown

Seat Back Incline Prior and Post Impact

- (00) Occupant not seated or no seat
- (01) Not adjustable

Upright prior to impact

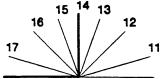
- (11) Moved to completely rearward position
- (12)Moved to rearward midrange position
- (13)Moved to slightly rearward position
- Retained pre-impact position
- Moved to slightly forward (15)position
- Moved to forward midrange (16)position
- Moved to completely forward (17)position

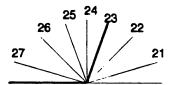
Slightly reclined prior to impact

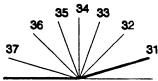
- (21) Moved to completely rearward position
- (22)Moved to rearward midrange position
- (23)Retained pre-impact postion
- (24)Moved to upright position
- (25)Moved to slightly forward position
- (26)Moved to forward midrange position
- Moved to completely forward 1271 position

Completely reclined prior to impact

- Retained pre-impact position
- (32)Moved to rearward midrange position
- (33)Moved to slightly rearward position
- (34) Moved to upright position
- (35)Moved to slightly forward nosition
- (36)Moved to forward midrange position
- Moved to completely forward position
- (99) Unknown







Coding diagrams for Seat Back Incline Position Prior and Post Impact

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

Wh	en a child safety seat is pre occupant's number using	HILD SAFE sent enter the codes list	occu	pant's n	umbe	er in the fi	rst row and co	emplete the co	plumn below at present.
Oc	cupant Number								
1.	Type of Child Safety Seat	N	0	Se	a t	5	avoila	6le	
2.	Child Safety Seat Orientation		@	tir	ne	of	inspec	tion	·
3.	Child Safety Seat Harness Usage						,	·	
4.	Child Safety Seat Shield Usage								
5.	Child Safety Seat Tether Usage					·			
6.	Child Safety Seat Make/Model		4,	Specif	у Ве	low for E	ach Child Safe	ety Seat	
1.	Type of Child Safety Sea	t	4. Child Safety Seat Shield Usage						
2.	(0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety (9) Unknown child safety (9) Unknown if child safety (9) Unknown if child safety (10) No child safety seat (11) Rear facing (12) Forward facing (13) Other orientation (14) Toward facing (15) Forward facing (16) Unknown orientation (17) Forward facing (18) Other orientation (section of the content of t	r seat type ety seat used tion for pecify): n cing for This pecify): n htation For Thi Age/Weight	-			Note: Op (00) No Not Desig (01) Aft (02) Aft (03) Chi har (09) Uni Designed (11) Har (12) Har (19) Uni Unknowr (21) Har (22) Har (29) Uni (99) Uni	tety Seat Tethotions Below A child safety segmed with Harrer led, not used led, not used led, not used led, safety seat ness/shield/tethown if harrer led or used led With Harness shield/tethown if harrer led led led led led led led led led led	are Used for Veat mess/Shield/Tess/shield/temess/shield/temess/shield/tethers/shield/Tethers/shield/Tether not used therefore the used	Tether ther used after market ner her used /Shield/Tether her used
	(29) Unknown orientatio	Unknown orientation Unknown if child safety seat used							
3.	Child Safety Seat Harnes	s Usage	-						

EJECTION No [X] Yes [Describe indications of ejection and	d body parts i			n(s):			
Occupant Number							
Ejection							
(Note on Vehicle Interior Sketch) Ejection Area							
Ejection Medium							
Medium Status							
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	(8) Other pick (9) Unk Ejection N (1) Doo (2) Non (3) Fixe	(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):			(5) Integral structure (8) Other medium (specify): (9) Unknown Medium Status (Immediately Prioto Impact) (1) Open (2) Closed (3) Integral structure (9) Unknown		
ENTRAPMENT No [Ye							
	· · · · · · · · · · · · · · · · · · ·						
Component(s):							

NASS CDS VEHICLE FORMS: VEHICLE #2

National Highway Traffic Safety Administration

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number	12. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kmph (999) Unknown
VEHICLE IDENTIFICATION 4. Vehicle Model Year Code the last two digits of the model year (99) Unknown 5. Vehicle Make (specify): Applicable codes are found in your	35 mph x 1.6093 = 56 kmph 13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present (9) Unknown
NASS Data Collection, Coding and Editing Manual. (99) Unknown 6. Vehicle Model (specify): Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source: PAR
7. Body Type Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number 2 1 A W 1 9 R 3 G 6 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nines	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present (7) Not reported (8) No driver present (9) Unknown
9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown	(0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify): (3) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given 17. Driver's Zip Code (00001)Driver not a resident of U.S. or territories Code actual 5-digit zip code
OFFICIAL RECORDS O. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 1. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown	(99998)No driver present (99999)Unknown 18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify):
$\frac{5}{5} \text{ mph x 1.6093} = \frac{008}{5} \text{ kmph}$	(8) No driver present (9) Unknown

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)</p>
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer) (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	DDEODACH ENVIDONING NEAL DATA				
	PRECRASH ENVIRONMENTAL DATA				1
			7 25	. Roadway Surface Condition	/
10	Relation To Interchange Or Junction	2	ı	(1) Dry	
115.		Δ	1	(2) Wet	
1	(0) Non-interchange area and non-junction		l		
	(1) Interchange area related		1	(3) Snow or slush	
1			1	(4) Ice	
l			1	(5) Sand, dirt, or oil	
1	Non-Interchange junctions		1		
1	(2) Intersection related		1	(8) Other (specify):	
l	(3) Driveway, alley access related		i	(9) Unknown	
1			1		
1	(4) Other junction (specify)		1		
1			26	. Light Conditions)
l	(5) Unknown type of junction		120		
1	(o) Cimilatin type of Janotton		1	(1) Daylight	
1			1	(2) Dark	
[(9) Unknown		1	(3) Dark, but lighted	
1			1	_	
l			1	(4) Dawn	
۱	T FI	\wedge	1	(5) Dusk	
20.	Trafficway Flow	$\underline{\mathcal{O}}$	1	(9) Unknown	
l	(0) Not physically divided (two way traffic)			, , , , , , , , , , , , , , , , , , , ,	
l	(1) Divided trafficway-median strip without		1		
ĺ			1		_
1	positive barrier		27.	. Atmospheric Conditions	\circ
1	(2) Divided trafficway-median strip with positive	ve	1	(0) No adverse atmospheric-related driving	<u> </u>
l	barrier		1	•	
i			1	conditions	
1	(3) One way traffic		l	(1) Rain	
l	(9) Unknown		1	(2) Sleet/hail	
1			l	•—•	
			ł	(3) Snow	
21.	Number Of Travel Lanes	2)	1	(4) Fog	
	(1) One	_	1	(5) Rain and fog	
			1	(6) Sleet and fog	
	(2) Two		į		
	(3) Three		l	(7) Other (e.g., smog, smoke, blowing sand o	r
	(4) Four		ŀ	dust, etc.) (specify):	
	• •		l	•	
	(5) Five		1	(9) Unknown	
	(6) Six			(9) Unknown	
	(7) Seven or more		1		1
	(9) Unknown		28.	Traffic Control Device	α
	(o) olikilovii		l	(0) No traffic control(s)	
			1	(1) Traffic control signal (not RR crossing)	
22	Roadway Alignment		1	(1) Traffic Collifor Signal (not NA crossing)	
22.		_	l		
	(1) Straight		l	Regulatory	
	(2) Curve right			(2) Stop sign	- 1
	(3) Curve left		ł		
			l	(3) Yield sign	- 1
	(9) Unknown		l	(4) School zone sign	1
			Ì	(5) Other regulatory sign (specify):	f
		,	ŀ	,	
	Roadway Profile	/	ŀ	(C) Maning sing (and CO)	i
	(1) Level			(6) Warning sign (not RR crossing)	I
	(2) Uphill grade (>2%)			(7) Unknown sign	l
				(8) Miscellaneous/other controls including RR	
	(3) Hill crest				
	(4) Downhill grade (>2%)			controls (specify):	İ
	(5) Sag	- 1			
	(9) Unknown			(9) Unknown	1
	15) OHKHOWH	ļ			1
		1			1
24	Dandous Couters =	0			ハ !
	Roadway Surface Type	2	29.	Traffic Control Device Functioning	α
	(1) Concrete			(0) No traffic control device	
	(2) Bituminous (asphalt)	1		(1) Traffic control device not functioning	1
	(3) Brick or block	- 1			1
				(specify):	
	(4) Slag, gravel, or stone			(2) Traffic control device functioning properly	-
	(5) Dirt			(9) Unknown	-
	(8) Other (specify):				ļ
	(9) Unknown	ļ			
	(a) Ouknown	}			ļ
		l			į

	PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
30.	Driver's Distraction/Inattention To Driving (Prior To Recognition Of Critical Event) (00) No driver present (01) Attentive or not distracted (02) Looked but did not see	(10) Over the lane line on left side of travel lane (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (13) Off the edge of the road on the right side (14) End departure
	Distractions (03) By other occupant(s), (specify):	(15) Turning left at intersection (16) Turning right at intersection (17) Crossing over (passing through) intersection (18) This vehicle decelerating
	(04) By moving object in vehicle (specify):	(19) Unknown travel direction
	(05) While talking or listening to cellular phone (specify location and type of phone):	Other Motor Vehicle In Lane (50) Other vehicle stopped (51) Traveling in same direction with lower steady
	(06) While dialing cellular phone (specify location and type of phone):	speed (52) Traveling in same direction while decelerating (53) Traveling in same direction with higher speed (54) Traveling in same direction
	(07) While adjusting climate controls (08) While adjusting radio, cassette, CD (specify):	(54) Traveling in opposite direction (55) In crossover (56) Backing (59) Unknown travel direction of other motor
	(09) While using other device/object in vehicle (specify):	vehicle in lane
	(10) Sleepy or fell asleep (11) Distracted by outside person, object, or event (specify):	Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction)—over left lane line
	(12) Eating or drinking (13) Smoking related	(61) From adjacent lane (same direction)—over right lane line
	(97) Distracted/inattentive, details unknown (98) Other, distraction (specify):	(62) From opposite direction—over left lane line (63) From opposite direction—over right lane line
	(99) Unknown	(64) From parking lane (65) From crossing street, turning into same
) i.	Pre-Event Movement (Prior to Recognition of Critical Event) (00) No driver present (01) Going straight (02) Decelerating in traffic lane (03) Accelerating in traffic lane (04) Starting in traffic lane (05) Stopped in traffic lane (06) Passing or overtaking another vehicle (07) Disabled or parked in travel lane (08) Leaving a parking position (09) Entering a parking position	direction (66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown
	(10) Turning right (11) Turning left (12) Making a U-turn (13) Backing up (other than for parking position) (14) Negotiating a curve (15) Changing lanes (16) Merging (17) Successful avoidance maneuver to a previous critical event (97) Other (specify):	Pedestrian, Pedalcyclist, or Other Nonmotorist (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify): (84) Pedalcyclist or other nonmotorist approaching roadway, (specify): (85) Pedalcyclist or other nonmotorist—unknown
	(99) Unknown	location (specify):
	Critical Precrash Event This Vehicle Loss of Control Due To: (01) Blow out or flat tire (02) Stalled engine (03) Disabling vehicle failure (e.g., wheel fell off) (specify): (04) Non-disabling vehicle problem (e.g., hood flew up) (specify): (05) Poor road conditions (puddle, pot hole, ice, etc.) (specify): (06) Traveling too fast for conditions	Object or Animal (87) Animal in roadway (88) Animal approaching roadway (89) Animal—unknown location (90) Object in roadway (91) Object approaching roadway (92) Object—unknown location (98) Other critical precrash event (specify): (99) Unknown
	(08) Other cause of control loss (specify): (09) Unknown cause of control loss	
	100, 0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

33.	Attempted Avoidance Maneuver	35. Pre-Impact Location
	(00) No driver present	(O) No driver present
İ	(01) No avoidance maneuver	(1) Stayed in original travel lane
	(02) Braking (no lockup)	(2) Stayed on roadway but left original travel
	(03) Braking (lockup)	lane
	(04) Braking (lockup unknown)	(3) Stayed on roadway, not known if left original
	(05) Releasing brakes	travel lane
	(06) Steering left	(4) Departed roadway
l	(07) Steering right	(5) Remained off roadway
	(08) Braking and steering left	(6) Returned to roadway
1	(09) Braking and steering right	(7) Entered roadway
1	(10) Accelerating	(9) Unknown
İ	(11) Accelerating and steering left	
	(12) Accelerating and steering right	^ 7
l	(98) Other action (specify):	36. Accident Type
		(Note: Applicable codes on back of this
	(99) Unknown	page)
		(00) No impact
		Code the number of the diagram that best
34.	Pre-Impact Stability	describes the accident circumstance
	(0) No driver present	(98) Other accident type (specify):
	(1) Tracking	
	(2) Skidding longitudinally—rotation less than 30	(99) Unknown
	degrees	
	(3) Skidding laterally—clockwise rotation	
	(4) Skidding laterally—counterclockwise rotation	
	(7) Other vehicle loss-of-control (specify):	
	(0) B	
	(9) Precrash stability unknown	

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

Cate	Configur-		ACCIDENT	TYPES (In-	cludes Int	enti		
	A Right Roadside	01	50077801	B	AVOID COL	~	04 SPECIFICS	05 PPECIFICS
<u>.</u>	Departure	DRIVE OFF	CONTROL/ TRACTION			PED. ANIM.	OTHER	UNKNOWN
Single Driver	B Left	04		507		<u> </u>	co	10
Single	Roadside Departure	DRIVE OFF	CONTROL	LOSS	AVOID COL WITH VEH.	LIBION , PED., ANIM.	SPECIFICS OTHER	SPECIFICS UNKNOWN
-	C Forward		12	13 · c		14	15	16
	Impact	PARKED VEH.		PEDESTRIAN ANIMAL		ARTURE	SPECIFICS OTHER	SPECIFICS UNKNOWN
	D Kear-End	20 20	21 24 -	28 25 27	<u>a</u> :	کریہ (۱۰۰ 29 اللہ 31	(EACH • 32)	(EACH • 33)
Trafficway Direction		8TOPPED 21, 22, 23	SLOWER 26, 26, 27		DECEL. 20. 30. 31	J,	SPECIFICS OTHER	SPECIFICS UNKNOWN
e Trut	E Forward	N CO	3 6	?		40 0	EACH .	42) (EACH + 43)
II Sane Sane	Imp&1	CONTROL/ TRACTION LOSS	CONTROL/ TRACTION LOSS	AVOID CO		WITH OBJECT		SPECIFICS UNKNOWN
_	F Sideswipe Angle	44 -45	46	\	(EAC) SPECE OTHER		(EAC)	1 - 49) ICE UNKNOWN
2) H M	G Head-On	LATERAL MOVE	= (EACH • 62) SPECIFICS OTHER			H • 53) SPICS UNKNOW	7N	
Same Trafficway Oppanie Direction	H Forward Impact	54 ED 65 CONTROL/ TRACTION LOSS	CONTROL/ TRACTION LOSS	,	OLUSION H.	AVOID COLLIE WITH OBJECT	- 61 HON SPECIFIC	62)(EACH + 63) B SPECIFICS UNKNOWN
S III	l Sideswipe Angle	LATERAL MOVE	SPECIFICS OTHER) .		CH • 67)	7N	
· .	J. Turn	- /-	2 7	70 7	3	/	(EACH + 7	4) (EACH • 75)
Turning Turning	Across Path	INITIAL OPPOSIT	TE INITIAL SA	ME DIRECTIO	ONS		EPECIFICS OTHER	SPECIFICS -
Change Trafficway Vehick Turning	K Turn Into Path	77	n	1	81	- B	1	MI (EACH • 85)
2		TURN INTO SAME	DIRECTION	TURN INT	O OPPOSITI	DIRECTIONS	SPECIFICS OTHER	SPECIFICS UNKNOWN
V Increct ing Paths (Vehicle Damage)	L. Straight Paths	57		co		CH • 90) CIPICS IER	(EACH + 1 SPECIFICS	III UNKNOWN
VI Miscel Ianeous	M Backing Etc	ا ا	IS OTHER VEH. OR OBJECT		90	Other Accide Unknown Ac No Impect		

National Accident	Sampling System-Crashworthiness D	ata S	Azrei	m: General Venicle Form	Page
00	CCUPANT RELATED	44	. Ve	ehicle Cargo Weight O, O	00
37. Driver Preser	nce in Vehicle			Code weight to nearest 10 kilograms.	
(0) Driver no				000) Less than 5 kilograms	
(1) Driver pro		ı		50) 4,500 kilograms or more 199) Unknown	
(0) 0111110			(3		
38. Number of O	ccupants This Vehicle	.		ource: DPIVER	
for this	e actual number of occupants		30		
(97) 97 or m	ore			ROLLOVER DATA	
(99) Unknow	'n	45	. Ro	ollover Ø	0
39. Number of O	ccupant Forms Submitted 💍 /			0) No rollover (no overturning)	
	AIR BAG RELATED			llover (primarily about the longitudinal axis)
		•	01-1 11	16) Code the number of quarter turns17) Rollover, 17 or more quarter turns	
40. Is this an AO	PS Vehicle? udes unknown)	.		(specify):	
(1) Yes - res	searcher determined	ı	(9	Rollover-end-over-end (i.e., primarily about the lateral axis)	
(2) VIN dete	ermined air bag system	ł	(9	99) Rollover (overturn), details unknown	
(4) VIN dete	ermined automatic (passive) belts ermined air bag and automatic	146	P.	llover Initiation Type	\wedge
(passive)) belts	40.	(00	O) No rollover	<u> </u>
41 Air Rag(s) De	ployment, First Seat Frontal		(01	1) Trip-over	
(0) Not equi	pped or not available			2) Flip-over 3) Turn-over	
(1) No air ba	ags deployed		(04	1) Climb-over	
Single Air Bag	g <i>Vehicle</i> r bag deployed			5) Fall-over 5) Bounce-over	
(3) Driver air	r bag deployed r bag, unknown if deployed		(07	7) Collision with another vehicle	
Multiple Air B	• •		(08	B) Other rollover initiation type specify):	
(4) Driver sid	de only deployed		(98	B) Rolloverend-over-end	
(5) Passenge (6) Driver an	er side only deployed nd passenger side deployed		(99	9) Unknown rollover initiation type	
(7) Driver an	nd passenger side unknown if	47.	Loc	cation of Rollover Initiation	\bigcirc
deployed (8) Air bag(s	l s) deployed, details unknown	'''	(0)	No rollover	<u> </u>
(9) Unknow	n deployed, details unknown		(1) (2)		
12 Air Pagis) Dar	playment Other There First		(3)	On shoulder—unpaved	
Seat Frontal	ployment, Other Than First		(4)		1 .,
(0) Not equip	pped with an "other" air bag		(8) (9)		
(I) Deployed impact)	during accident (as a result of	1.0	D - 1		\wedge
(2) Deployed	inadvertently just prior to accident	48.		lover Initiation Object Contacted (a)	
(3) Deployed	f, details unknown f as a result of a noncollision event			, , , , , , , , , , , , , , , , , , ,	
during ac	cident sequence (e.g., fire,	49.	Loc	cation on Vehicle Where Initial Principal oping Force Is Applied	0
explosior (5) Unknowr	n, electrical) n if deployed	1	(0)	No rollover	
(7) Nondeplo		1	(1) (2)	Wheels/tires Side plane	
(9) Unknowr	ı İ	1	(3)		
Specify type of	"other" air bag present:		(4)		
			(5)	Other location on vehicle (specify):	
			(6)	the second terror (opposity).	
VEHI	CLE WEIGHT ITEMS		(8) (9)		
40	1 2 2	50.	Dire	ection of Initial Roll	\triangle
	urb Weight $1, 230$ ode weight to nearest		(0)	No rollover	
10	kilograms.		(1)	Roll right - primarily about the longitudina axis	lt.
	s than 450 kilograms 00 kilograms or more		(2)	Roll left - primarily about the longitudinal	
(999) Unl	knowa .		(8)	axis Rolloverend-over-end	
-2.7	15 lbs x 4536 = 1232 kas		(9)		
Source:					

	OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51.	Front Override/Underride (this Vehicle)	HIGHEST DELTA V
52.	Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles,	58. Basis for Total (Resultant) Delta V
	and no medium/heavy truck or bus underride	(00) No vehicle inspection
	Override (see specific CDC) [Between 2 CDS applicable vehicles [Bodytype, GV07 = 1-49]] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm
	Underride (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
	(7) Medium/heavy truck or bus override (of any configuration)(9) Unknown	All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the
	HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	reconstruction program or other acceptable reconstruction technique, regardless of adequacy
	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown	of damage data. (05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage
53.	Heading Angle For This Vehicle 270	(08) Severe override
54.	Heading Angle For Other Vehicle	(09) Yielding object (10) Overlapping damage
	RECONSTRUCTION DATA	(11) All vehicle and collision conditions are within scope of one of the acceptable
	Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	reconstruction programs, but there is insufficient data available, (specify):
	Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	(98) Other, (specify):
	Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted < 45 degrees (4) Tilted ≥ 45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	
	(9) Unknown	

COMPUTER GENERAT	TED CRASH SEVERITY
59. Total Delta V	Highest One of the secondary of the sec
61. Lateral Component of Delta V — 0 / 6 — 16.1 Nearest kmph (highest) — Nearest kmph (secondary) (NOTE: _ 000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (_999) Unknown 62. Energy Absorption 0 / 0 , 9 0 0 10, 914 Nearest 100 joules (highest) — Nearest 100 joules (secondary) (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown	OTHER SPEED ESTIMATE Highest 65. Barrier Equivalent Speed ///// //// Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown
IS MISSING VEHICLE ALGORITHM APPLICA IF YES: IS A COMPLETED PROGRAM SU	

5. Estimated Highest Delta V (Researcher Determined) (O) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown *** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), *** DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS *** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE *** THE EXTERIOR VEHICLE, INTERIOR VEHICLE, OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.	tional Accident Sampling System-Crashworthiness I	Data System: General Vehicle Form Page VEHICLE INSPECTION
OO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS *** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE *** THE EXTERIOR VEHICLE, INTERIOR VEHICLE,	(0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe	(0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify):
*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE *** THE EXTERIOR VEHICLE, INTERIOR VEHICLE,		
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,		
	DO NOT COMPLETE THE EXTER	IOR AND INTERIOR VEHICLE FORMS
OCCUPANT ASSESSIVENT, AND OCCUPANT INJUNT FURMS.	DO NOT COMPLETE THE EXTER	IOR AND INTERIOR VEHICLE FORMS AL 01-49, DO NOT COMPLETE ***
	DO NOT COMPLETE THE EXTER *** IF GV07 DOES NOT EQUA THE EXTERIOR VEHI	IOR AND INTERIOR VEHICLE FORMS AL 01-49, DO NOT COMPLETE *** CLE, INTERIOR VEHICLE,
	DO NOT COMPLETE THE EXTER *** IF GV07 DOES NOT EQUA THE EXTERIOR VEHI	IOR AND INTERIOR VEHICLE FORMS AL 01-49, DO NOT COMPLETE *** CLE, INTERIOR VEHICLE,
	DO NOT COMPLETE THE EXTER *** IF GV07 DOES NOT EQUA THE EXTERIOR VEHI	IOR AND INTERIOR VEHICLE FORMS AL 01-49, DO NOT COMPLETE *** CLE, INTERIOR VEHICLE,
	DO NOT COMPLETE THE EXTER *** IF GV07 DOES NOT EQUA THE EXTERIOR VEHI	IOR AND INTERIOR VEHICLE FORMS AL 01-49, DO NOT COMPLETE *** CLE, INTERIOR VEHICLE,
	DO NOT COMPLETE THE EXTER *** IF GV07 DOES NOT EQUA THE EXTERIOR VEHI	IOR AND INTERIOR VEHICLE FORMS AL 01-49, DO NOT COMPLETE *** CLE, INTERIOR VEHICLE,

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

<u>Administration</u>	<u>n</u>								CRA	SHWORTH	INESS DA	TA SYSTE	M
1. Primary Sampling Unit Number 2. Case Number - Stratum 96			02	3. Vehi	cle Num	ber				o_8			
				VEHICLE	IDENT	IFICA"	LION						I
VIN _	VIN 1 G 1 A W 1 9 R 3 G 6 Model Year 8 6												
Vehicle M	VIN JG JAW 19 R366 Model Year 86 Vehicle Make (specify): Chevrolet Vehicle Model (specify): Celebrity												
. 10				[OCAT	OR	, ,						ı
			ge with resp le for side in		vehicle'	s damaç	ged cen	ter point	t or bun	nper cor	ner for	end	
Specific Imp	act No.	Location	of Direct Dam	age		Locatio	n of Field	L		Location	of Max C	rush	1
01	Sta	275 1	355 FOR	NARD RA	X 5	tacts	157.	5 foru	MEV R	RA	۲-	. 3	1
00	Stre	1/5 7	en to R	of Cent	erACR	055	FROM	+ Bum	per	Between	en (-3 C	k,
			(PA)					•			· · · · · · · · · · · · · · · · · · ·		1
			CRU	ISH PROF	ILE IN	CENTI	METE	RS	1				ĺ
:	sill, etc.) an	d label a	t which the adjustments	C-measurer (e.g., free	ments ar space).	e taken	(e.g., a	t bumpe				l, above	
	impacts.	10 00 1	rom driver t	o passenge	r side in	tront o	r rear im	ipacts a	nd rear	to front	in side		
t s	the individua side taper, e	al C loca etc. Rec	defined as t ations. This cord the valu	may includ ue for each	le the fo C-measi	llowing: urement	bumpe and ma	r lead, b iximum	umper t	body co taper, si	ontour ta de proti	aken at rusion,	
Specific	Jac as man	y 1111637C	Olumns as n		describ	e each	T	prome.	I	1	Γ		
Impact Number	Plane of I C-Measure		Width (CDC)	Max Crush	Field L	C,	С,	C ₃	C ₄	C ₅	C ₆	±D	!
01	MIDI	000 R	154	13	199	a	5	13	7	10	2		
	FRE	E		2		2	2	2	1	4	7		
	FINA			1)	1 -	0	3	1,1	/		^	153.9	1
	1 100	10					-5	//	6	6	0.	4)/.	3-
02	FRONT P	Junne	13	24	144	0	5	13	19	5	,Ø		
	FREE FINA	- 		0	1	5	3	1_	-/-	3			
	1 Rec	<u>, , , , , , , , , , , , , , , , , , , </u>		02				10			5	1. 14	
	FINA	1 [23	ļ	0	2	12	18	2	0	+14	
												 	
										 			

ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase						266 cm
Overall Length	188.3	inches	x	2.54	=	478° cm
Maximum Width	<u>69.3</u>	inches	x	2.54	=	176°cm
Curb Weight	_2,715	pounds	x	0.4536	=	1,231,5+ kg
Average Track	58.7} 57.0} <u>57.8</u> 5	inches	x	2.54	=	<u> </u>
Front Overhang	40.6	inches	x	2.54	=	<u>/ 0 3 cm</u>
Rear Overhang	_42.5	inches	x	2.54	=	
Undeformed End	Width	inches	x	2.54	=	<u> </u>
Engine Size: cyl/		cc	x	0.001	=	<u>2.5</u> l
L4 2.52	4-door 151	CID	x	0.0164	=	<u>2.5</u> L
6-1935enger,	ipping Weight	2,63	00	,		
	,	2 7 4	R	I		

Curb Weight 2,068
Curb Weight 2,715

SPECIAL CRASH INVESTIGATION ADDENDUM

Submodel Designation: {specify}	C	Color: {specify}	Repair Cost: \$
Transmission: {circle} (Automatic	Manual	Speed: 3-speed	4-speed 5-speed Other:
Steering: {dirde} Power-assisted {please describe}:	Manual	Type: rack-and	-pinion worm-and-gear Other
Brakes: {drde} Power-assisted	Manual		lisc 4-wheel drum 4-wheel hydraulic isc, rear drum Other:
Observed Defects: {specify}			
Fleet Type: {drde} (Private vehicle) R	ental vehic	le Leased vehicle	Commercial vehicle Other
{please describe}:			

	VEHICLE DAMAGE SKETCH	
TIRE—WHEEL DAMAGE a. Rotation physically b. Tire restricted deflated RF / RF / LF / LF / Z RR / Z LR / Z LR / Z LR / Z	ORIGINAL SPECIFICATIONS Wheelbase	WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only) RF ± o LF ± o RR ± o LR ± o Within ± 5 degrees
(1) Yes, (2) No (8) NA (9) Unk.	Front Overhang / 03 cm Rear Overhang / 08 cm	DRIVE WHEELS
TYPE OF TRANSMISSION Manual Automatic	Undeformed End Width /60 cm Engine Size: cyl./displ. 2.5 I4 L	Approximate Cargo Weight kg
	MEASUREMENTS IN CENTIMETERS	17
NOTES: Sketch new perimeter and cross batch	BC 105 2108 3- 105 208 3- 105 208 3- 105 203 314 MIN	103 108 108 108 108 107 107

NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of strictions, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

CHEVROLET [Division,	General	Motors	Corp.,		Mich. 🐗	
Type of Body Pass. Cap.		Model	O'r-all Length	Ship. Wt.	Cu. Ft. Vol.	Factory List Pr.	Factory Del'd Pr.
4005				•			
1985 steel belted radial amps. (CCA), 90 m	in. reserve	ca oscitv.					
steel belted radial amps. (CCA), 90 m NOTE: The 19 Chevrolet Caprice	in. reserve 85 prices f	capacity. or Chevrolet	do not i	nclude the D	estimation	Charges pri	nted here:
steel belted radial amps. (CCA), 90 m NOTE: The 19	in. reserve	capacity. or Chevrolet) Camar	do not i			Charges pri	

Born & Stroke 2 98"x3 66": Tax. H.P. 16 69; P.D. 98 cu. in., 1.6 Liter

Chevette "CS" Base Models	W.B.: Coupe 94.	3''; Sedan 97.3	ii. Manua	14-5pa. Irans.		
4-Ps. 2-dr. H.B. Coupe 4-Ps. 4-dr. H.B. Sedan	1TB08 1TB68		2.022	305 7 311 4	\$5,935.00 6,249.00	\$5 935 00 6.249 00
		4 D-4-1 D-1-		£200 dest		

NOTE: 1986 Chevette Manufacturer's Suggested Retail Price includes \$290 destination charges

Engine (L17) Gas: L-4-cyl., 98 cu. in., 1.6 Liter, 2-bbl. Carb., Comp. Ratio 9.0 to 1, Net bhp. 65 at 5200 rpm., Net torque 80 lb./tt. at 3200 rpm., Manual 4-Spd. Trans. Fuel Tank 12.2 gals. Single exhaust. Brakes: Disc.—front. duo-servo drum—rear. Tires P155/80R-13 (BW) Steel belted radiai. Manual steering. Battery: Delco 12V 330 amps. 60 min. reserve (1)Standard on Z90 Diesel Model.

Optional Equip.: Air conditioning, add 60 lbs. \$645; Power Brakes, add 7 lbs. \$100(1); 5-Spd. Manual Trans... add 31 lbs. \$75(1); 3-Spd. Auto. Trans. (MXI), add 51 lbs. \$425; Comfortift Steering add 4 lbs. \$115; Power Steering, add 20 lbs. \$215; AM Radio, add 4 lbs. \$51; AM/FM Radio, add 5 lbs. \$82; Diesel Engine Equipment, add 173 lbs. NC (L15 1.8 Liter L4 Diesel). Defogger, Elect. Rear Window, add 2 lbs. \$135. Calif. Emission System \$99. Tinted Glass, all Windows \$99.

CHEVROLET Cavalier (Gas Eng. LO5) L-4-Cyl. 121 ClD, 2.0 L.) (1885), 1985 Bore & Stroke 3.50"x3.15": Tax, H.P. 19.6; P.D. 121 cu. in. (2.0 Liter)

DONE 6	SUULE 3.50 A	J. 13 , 184. H.F.	13.0,1.0	. 12 1 60. 111. (2	.o citery	
Cavaller- 101.2" w.b. (Notchi	back Coupe, Se	dan & Station W	ngon)			
5-Ps. 2-dr. NB Coupe	1JC27	174.3"	2,231	330.6	\$7,076.00	\$7,076 00
5-Ps. 4-dr. NB Sedan	1JC69	174.3	2,274	348.4	7,258.00	7,258. 0 0
5-Ps. 4-dr. Sta. Wagon	1JC35	174.5"	2,344	353.5	7,417.00	7,417.00
Cavalier "CS"- 101.2" w.b. (Hatchback Cou	pe, Notchback So	In., Statio	n Wagon)		
5-Ps. 2-dr. HB Coupe	1JD77	172.4"	2,306	330.6	\$7,743 00	\$7.743 00
5-Ps. 4-dr. NB Sedan	1JD69	174 3"	2,287	348 4	7,720.00	7,720.00
5-Ps. 4-dr. Station Wagon	1J035	174.5	2.355	353.5	7,895.00	7,895.00
Cavalier "RS"- 101.2" w.b. (Notchback Cpe	& Sdn., Hatchb	ock Cpe.,	Station Wagon)	
5-Ps. 2-dr. NB Coupe	1JE27	172.4	2,257	330.6	\$8,010.00	\$8,010.00
5-Ps. 2-dr. HB Coupe	1JE77	172.4	2,319	3?0.6	8,200.00	8,200.00
5-Ps. 4-dr. NB Sedan	1JE69	174.3"	2,299	348.4	8,181.00	8,181.00
5-Ps. 4-dr. Station Wagon	1JE35	174.5	2,371	353.5	8,349.00	8,349.00
Familia (LOE) Cas: L.4.0	1 121 cu in (2	Olitor) FELCar	t Como	Ratio 9 0 to 1	Net bhn 85 at 48	00 rom Net

Engine (LQ5) Gas: L-4-Cyl. 121 cu. in. (2.0 Liter), EFI Carb., Comp. Ratio 9.0 to 1, Net bhp. 85 at 4800 rpm.. Torque 110 at 2400 rpms.

Optional Equipment: V6-173 CID— 2.8 L. Gas Eng., add 120 lbs. \$610; 5-Spd. Manual Trans., add 11 lbs. \$75; Auto. Trans. 61 lbs. \$465; Removable Sun Roof, add 16 lbs. \$310; Power Door Lock Systems: 2-dr. 4 lbs. \$130; 4-dr. 6 lbs. \$180; Power Liftgate Release (Sta. Wags.) 3 lbs. \$40; Power Windows: (Stand. on Conv.) 2-drs. 7 lbs. \$195; 4-drs. 11 lbs. \$270; Rear Window Wiper & Washer (Sta. Wags. & Hatchbacks) 8 lbs. \$125; Electric Rear Window Defogger 1 lb. \$135; Air Conditioning: w/4 & 5-Spd. Man. Trans. 40 lbs. \$645; with Auto. Trans. 44 lbs. \$645; Electronic Speed Control 4 lbs. \$175; Comfortilt Steering Wheel add 3 lbs. \$115; Power Steering (Cavalier & "CS" Senes) add 21 lbs. \$215; AM/FM Stereo Radio—ETR, add 3 lbs. \$158; (Cavalier Series \$258); AM/FM Stereo Radio. Cassette Player—ETR, add 3 lbs. \$319; (Cavalier Series \$419); AM Radio 4 lbs. \$112. (Cavalier Series—Standard on all other models). Roof Carrier (Station Wagons) 17 lbs. \$105. Calif. Emission System \$99. Tinted Glass, all windows \$99.

Celebrity & Camaro Series (Gas Eng. (LR8) L-4-Cyl. 151 CIO, 2.5 L.) 1985 Bore & Stroke 4.0"x3.0"; Tax. H.P. 25.6; P.D. (151 cu. in. (2.5 Liters)

Celebrity- 104.9" w.b. (Front Wh	eel Drive) 🖡	danual 4-Spd. Tr	ins)			
6-Ps. 2-dr. Notchback Coupe	1AW27	188.3	2.609	408.5	\$9,149.00	\$9,149.00
6-Ps. 4-dr. Notchback Sedan	1AW19	(188.3	2.638	408.5	9,345.00	9.345.00
6-Ps. 4-dr. Station Wagon	1AW35	190.8"	2.770	415.5	9,495.00	9,495 00
8-Ps. 4-dr. Sta. Wag. w/3rd seat		1 9 0.8''	2.783	415.5	9,727.00	9.727 00
Camaro— 101.0" w.b. (Rear Whee	el Drive) Ma	inual 5-Spd. Trai	15 .			
4-Ps. 2-dr. Sport Coupe	1FP87	188.0	2,820	396.0	\$9,349.00	\$9,349.00
4-Ps. 2-dr. Berlinetta Sp. Cpe.	1FS87	188.0	2,986	396.0	12,316.00	12,316.00

Engines (LR8 & L09) Gas: L-4-Cyl. 151 CID 2.5 L., EFI Carb., Comp. ratio 9 0 to 1, Net brake HP: LR8 has 92 at 4400 rpm. & torque of 134 ft./lbs. at 2800 rpm.; LQ9 has net bhp. of 88 at 4400 rpm., torque of 130 ft./lbs. at 2800 rpm. Gas tank.

Chevrolet Cavalier "RS" & Z24 (Gas Eng. (LB6) V6-173 CID— 2.8 L.). Bore & Stroke 3.50"x2.99"; Tax. H.P. 29.4; P.D. 173 cu. in. (2.8 Liters)

DOIS G DE DIRE 3.50 AZ.33 , TEX. 11.1 . 23.4, 1.0. 175 CO. 11. (2.0 CITS)											
Cavalier "RS"— 101.2" w.b. Front Wheel Drive. Manual 4-Spd. Trans.											
4-Ps. 2-dr. Convertible Coupe	1JE67	172.4	2,376	347.0	\$12,900.00	\$12, 900 00					
Cavalier 224- 101.2" w.b., Front	Wheel Drive,	Manual 4-Spd	. Trans.								
5-Ps. 2-dr. Notchback Coupe	1JF27	172.4"	2,451	330.6	\$9,248.00	\$9,248.00					
5-Ps. 2-dr. Hatchback Coupe	1JF77	172.4"	2,513	330.6	9,438.00	9.438.00					
Engine (LB6) Gas: V6-Cyl. 173	cu. in., 2.8 Li	ter, MFI Carb.,	Comp. Rati	io 8.5 to 1, net bhp	. 120 at 4800 rpn	n., net torque					
155 ft./fbs. at 3600 rpm., single ex	haust.					•					

National A	ccident Samp	oling System-Cra		<u>_</u>		venicle roi	m ~ F	Page	
			CDC	WORKSH	EET				
			CODES FOR	OBJECT CO	NTACTED				
(01-30)) — Vehicle N	lumber		•	57) Fence				
Noncol	liaiaa			•	58) Wall				
		rollover (exclude	s and aver a		59) Buildir 60) Ditch				
	Rollover—en		s enu-over-e		61) Groun				
	Fire or explo			•	62) Fire hy				
	Jackknife	31311			63) Curb	diani			
		nit damage (spec	eifv):		64) Bridge				
		- '				fixed object	(specify):		
(36)	Noncollision	injury							
(38)	Other nonco	llision (specify):		((39) Unkno	wn fixed ob	ject		
(39)	Noncollision	- details unkno	wn	Coll	ision with I	Nonfixed Ob	iect		
				(7	70) Passer	nger car, ligh	t truck, van	, or other	
	n With Fixed (vehicle	not in-trans	sport		
		m in diameter)		(7	71) Mediur	m/heavy truc	k or bus no	t in-transport	
(42)	Tree (> 10 d	cm in diameter)			Pedest			•	
(43)	Shrubbery or	bush bush			Cyclist				
(44)	Embankment			(7	(4) Other	nonmotorist	or conveyar	ice	
(45)	Breakaway p	ole or post (any	diameter)	(7	5) Vehicle	e occupant			
					'6) Animal				
Nonbrea	akaway Pole d	or Post			7) Train				
		(≤ 10 cm in diam	neter)			disconnecte	ed in transpo	ort	
		> 10 cm but s		(7	9) Object	fell from vet	nicle in-trans	sport	
	diameter)								
		(> 30 cm in diar				Other nonfixed object (specify):			
(53)	Pole or post	(diameter unknov	wn)	(8	9) Unknow	wn nonfixed	object		
(54)	Concrete traf	fic barrier		10	8) Other e	event (specif	w) •		
(55)	Impact attend	uator		(3	or other e	vent (specii	γ		
		barrier (includes	guardrail)	(9	9) Unknov	wn event or	object		
	(specify):								
		DEFORMA	TION CLASS	SIFICATION E	BY EVENT I	NUMBER			
Accident		(4) (2)			(4)	(5)			
Event		(1) (2) Direction	Incremental	(3)	Specific	Specific	(6) Turner of		
Sequence	Object	of Force	Value of	(3) Deformation	Longitudinal or Lateral	Vertical or Lateral	Type of Damage	(7) Deformation	
Number	Contacted	(degrees)	Shift	Location	Location	Location	Distribution	Extent	
01	$\overline{\Delta}$	- 9.0		$\overline{\mathcal{Q}}$			4.1		
<u>~</u> +				Д		E	ω	<u>0 2</u>	
02	51	1000 B		\sqsubseteq	C	E	$\overline{\mathcal{N}}$	07	
					$\stackrel{\smile}{-}$	<u> </u>	70	<u> </u>	

							-	- 	
									

		COLLISION	DEFORMA	TION CLAS	SIFICATIO	V				
HIGHEST DELTA "V"										
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent			
4. 0 1	5. <u>0</u> <u>1</u>	6. <u>Ø</u> <u>3</u>	7. <u>R</u>	8	9. <u>E</u>	10. <u>W</u>	11. 02			
Second Highest Delta "V"										
12.02	13. <u>5</u> /	14. / 2	15. <u>F</u>	16. <u>C</u>	17. <u>E</u>	18. 📈	19. <u>0</u> /_			
		CRUS	H PROFILE	IN CENTIM	ETERS					
	The crush prof in the appro	ile for the dan opriate space I	nage described below. (ALL M	in the CDC(s) IEASUREMENT	above should S ARE IN CEN	be documente TIMETERS.)	d .			
HIGHEST C	DELTA "V"									
20. 	21. 		C ₃		C ₅	C ₆	22. 			
199	000	003	0//	060	060	00 =	154			
Second Hig	ghest Delta "V	н								
23. 	24. 				C ₅	C ₆	25. ± D			
144	000	002	012	<u> 218 o</u>	020	<u>00</u>	014			
(Coded impact (250) (998) (999) 27. Direct (rmed End Width when highest s is an end plane Code to the nea 250 centimeter No highest seven Unknown	severity impact.) arest centimeters or more erity end plane	impact	(650) (999) <u>/ O</u> (I Average Trac Code to the	rs or more 2.54 = <u>2 </u>	266 6 centimeters			
(250)	hest severity in Code to the ne 250 centimeter Unknown	arest centimete	/ <u>5</u> 4	(000)	nearest centimete 185 centimete Unknown 7 O inches X		$\frac{3}{4}$ centimeters			

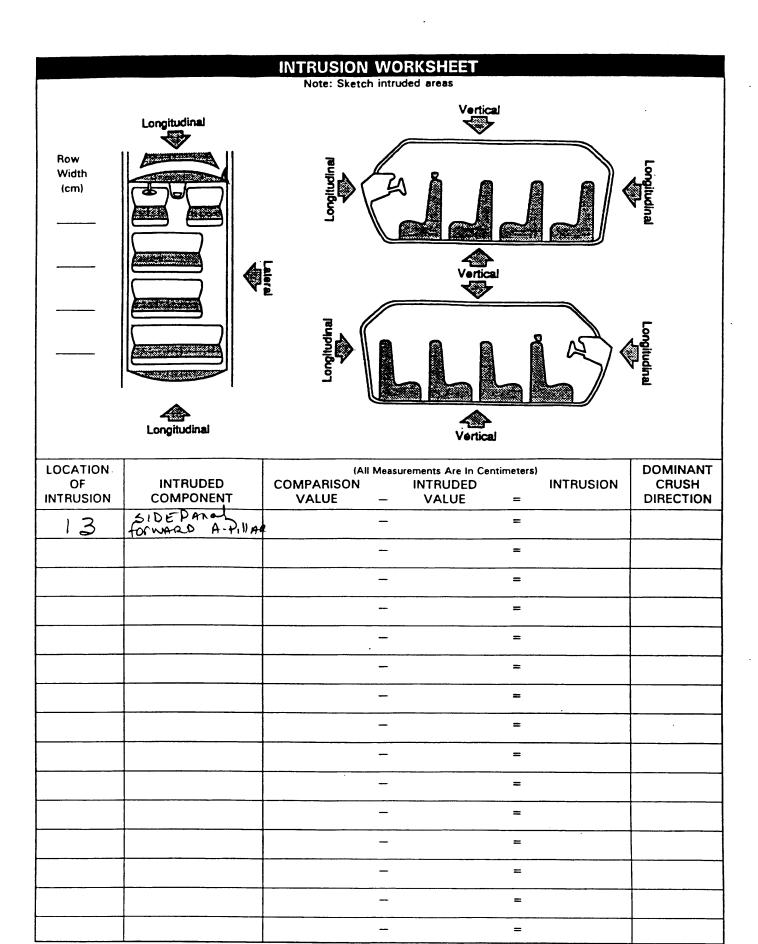
		FUEL SYSTEM
30. Are CDCs Documented but Not Coded on The Automated File? (0) No (1) Yes	0	35. Location of Fuel Tank-1 Filler Cap 36. Location of Fuel Tank-2 Filler Cap (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle)
31. Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 32. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified	1	on left side plane (3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane (7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown 37. Type of Fuel Tank-1 38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic
		(9) Unknown
FIRE OCCURRENCE		39. Location of Fuel Tank-1 40. Location of Fuel Tank-2
(0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown	0	(0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered (5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) left side (7) Over center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) left side (8) Other (specify): (9) Unknown 41. Damage to Fuel Tank-1 42. Damage to Fuel Tank-2 (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): (9) Unknown

	mar // coldent Camping C/		•		
43.	Leakage Location of Fuel System-1	1	7. Is This Vehicle Equipped V Two Fuel Tanks?		0
45.	Leakage Location of Fuel System-2 (0) No fuel tank (1) No fuel leakage Primary Area Of Leakage (2) Tank (3) Filler neck (4) Cap (5) Lines/pump/filter (6) Vent/emission recovery (8) Other (specify): (9) Unknown	0	(0) No (one or two tanks Yes - More Than Two Tan (1) Yes no damage to cap and no fuel syste (2) Yes no damage to cap but there is fuel; (specify leakage loca (3) Yes damage to an filler cap and there is (specify the following Type of tank Tank location Filler cap location Tank damage	ks any tank or filler am leakage any tank or filler system leakage tion): additional tank or fuel system leakage):	- -
46.	Fuel Type-2 Single Fuel Type (00) No fuel tank (01) Gasoline	<u> </u>	Location of leakage _ Type of fuel (9) Unknown if more that	n two tanks	- -
	 (02) Diesel (03) CNG (Compressed Natural Gas) (04) LPG (Liquid Petroleum Gas) also known as Propane (05) LNG (Liquid Natural Gas) (06) Methanol (M100 or M85) (07) Ethanol (E100 or E85) (08) Other (Hydrogen or others) (specify): Electric Powered or Electric/Solar Powered Vehicles (10) Lead Acid Battery (11) Nickel-Iron Battery (12) Nickel-Cadmium Battery (13) Sodium Metal Chloride Battery (14) Sodium Sulfur Battery (18) Other (Specify): (98) Other Hybrid (specify): (99) Unknown fuel type 	-	COMMEN	ITS	
	*** STOP: IF THE CDS AP	PLICABI (GV1		ED ***	
	DO NOT COMPLET	•	TERIOR VEHICLE FORM.		

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number 4. Passenger Compartment Integrity (00) No integrity loss Ves., Integrity Was Lost Through (101) Windsheld (102) Door (side) (103) Door/hatch (back door) (104) Roof (106) Roof glass (106) Side window (107) Rear window (backlight) (108) Roof and roof glass (109) Windsheld and door side) (111) Side and rear window (side window (131) Door and side window (132) Windsheld and door side) (133) Door and side window (133) Door and side window (134) Door sand side window (135) Door sand side window (136) Door side and side window (137) Door and side window (138) Other combination of above (specify): (139) Unknown Door, Tailgate or Hatch Opening 5. LF /	COTHERS (FELIOTI	CLAZINIC
2. Case Number - Stratum 3. Vehicle Number INTEGRITY 4. Passenger Compartment Integrity (20) No integrity loss Yes, integrity Was Lost Through (101) Windshield (102) Door (side) (103) Door/hatch (back door) (104) Roof (105) Rear window (backkight) (106) Windshield and orof (105) Rear window (side window (107) Rear window (side window (108) Give wordow (109) Unknown Window Precrash Glazing Status 23. WS _ 24. LF _ 25. RF _ 26. LR _ 27. RR _ 28. RL _ 29. TG/H _ 29. Roof _ 30. Other _ 28. RL _ 29. Roof _ 30. Other _ 28. RL _ 29. Roof _ 30. Other _ 28. RL _ 29. Roof _ 30. Other _ 28. RL _ 29. Roof _ 30. Other _ 28. RL _ 29. Roof _ 30. Other _ 38. RR _ 38. RL _	1. Primary Sampling Unit Number	GLAZING
NITEGRITY 4. Passenger Compartment Integrity ○○○ (O) No integrity loss Yes, Integrity Was Lost Through (O1) Windshield (O2) Door (ide) (O2) Door (ide) (O3) Door/hatch (back door) (O4) Roof (O3) Door/hatch (back door) (O4) Roof (O3) Poor (ide) (O3) Door/hatch (back door) (O4) Roof (O3) Roof (observed (O3) Sois window (O3) Roof (observed (O3) Sois window (O3) Roof (observed (O3) Roo	2. Case Number - Stratum 9612	
Passenger Compartment Integrity	3. Vehicle Number	
4. Passenger Compartment Integrity (00) No integrity loss Yas, Integrity Was Lost Through (10) Windsheld (102) Door laidel (103) Door/statch Bask door) (104) Windsheld (105) Roof glass (105) Roof glass (106) Roof glass (106) Windsheld and door (side) (110) Windsheld and foor (side) (110) Windsheld and foor (side) (110) Windsheld and foor (side) (110) Windsheld and foor (side) (110) Windsheld and foor (side) (120) Windsheld and foor (side) (131) Door and side window (132) Door and side window (133) Door and side window (134) Door and side window (135) Door suppart files (14) Windsheld and side window (130) Door fall glass or Hatch Opening 5. LF. Set Set Set Set Set Set Set Set Set Set	INTEGRITY	,
(99) Unknown (31) Partially opened (44) Fully opened (45) Fully opened (47) Glazing removed prior to accident (48) Unknown	Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window (07) Rear window (backlight) (08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof (11) Side and rear window (side window and backlight) (12) Windshield and side window (13) Door and side window	(1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (original) (4) AS-2 — Tempered-with after market tint (5) AS-3 — Tempered-tinted (with additional after market tint) (6) AS-14 — Glass/Plastic (7) Glazing removed prior to accident (8) Other (specify): (9) Unknown Window Precrash Glazing Status 23. WS 24. LF 25. RF 26. LR 27. RR 28. BL 29. Roof 30. Other 2 (0) No glazing (1) Fixed
5. LF		 (2) Closed (3) Partially opened (4) Fully opened (7) Glazing removed prior to accident
5. LF 6. RF 7. LR 8. RR 9. TG/H 31. WS 32. LF 33. RF 34. LR 35. RR 35. RR 36. BL 37. Roof 38. Other 38. RR 35. RR 36. BL 37. Roof 38. Other 38. RR 35. RR 36. BL 37. Roof 38. Other 38. RR 35. RR 36. BL 37. Roof 38. Other 38. RR 36. BL 37. Roof 38. Other 38. RR 36. BL 37. Roof 38. Other 38. RR 36. BL 37. Roof 38. Other 38. RR 36. BL 37. Roof 38. Other 38. RR 36. BL 37. Roof 38. Other 38. RR 36. BL 37. Roof 38. Other 38. RR 38.	Door, Tailgate or Hatch Opening	Glazing Damage from Impact Forces
(2) Door/gate/hatch came open during collision (3) Door/gate/hatch came open during collision (8) Other (specify): (9) Unknown Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø 10. LF 11. RF 12. LR 13. RR 14. TG/H ○ Door, Tailgate or Hatch Came Open During Collision (1) Door operational (no damage) (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage (6) Latch/striker and hinge failure due to damage (6) Unknown (7) Unknown (8) Other failure (specify): (9) Unknown (10) No glazing (11) No glazing damage from impact forces (2) Glazing out-of-place (cracked or not) and not holed from impact forces (3) Glazing in place and holed from impact forces (4) Glazing removed prior to accident (9) Unknown if damaged (9) Unknown if damaged (1) No glazing (1) No glazing Damage from Occupant Contact (2) Glazing Damage from Occupant Contact (3) Glazing Damage from Occupant Contact (4) Slazing out-of-place (pracked or not) and not holed by occupant contact (4) Glazing in place and holed from impact forces (5) Glazing pout-of-place and holed from impact forces (6) Glazing pout-of-place and holed from impact forces (6) Glazing pout-of-place and holed from impact forces (6) Glazing pout-of-place and holed from impact forces (7) Glazing parmoved prior to accident	5. LF <u>·</u> 6. RF / 7. LR / 8. RR / 9. TG/H <u></u>	31. WS / 32. LF / 33. RF / 34. LR / 35. RR /
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø 10. LF	 (1) Door/gate/hatch remained closed and operational (2) Door/gate/hatch came open during collision (3) Door/gate/hatch jammed shut (8) Other (specify): 	 (0) No glazing (1) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces (5) Glazing out-of-place and holed from impact forces
On No door/gate/hatch or door not opened 39. WS 3 40. LF / 41. RF / 42. LR / 43. RR / 44. BL / 45. Roof 6 46. Other / 45. Roof 6 46. Oth	Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	(7) Glazing removed prior to accident
Door, Tailgate or Hatch Came Open During Collision (1) Door operational (no damage) (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door structure failure due to damage (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage (6) Latch/striker and hinge failure due to damage (8) Other failure (specify): (9) Unknown 44. BL / 45. Roof ② 46. Other / (9) No glazing (1) No occupant contact to glazing (2) Glazing contacted by occupant but no glazing damage (3) Glazing in place and cracked by occupant contact (4) Glazing in place and holed by occupant contact (5) Glazing out-of-place (cracked or not) by occupant contact (6) Glazing out-of-place by occupant contact (7) Glazing removed prior to accident	10. LF <u></u> 11. RF <u></u> 12. LR <u>0</u> 13. RR <u>0</u> 14. TG/H <u>0</u>	
(1) Door operational (no damage) (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door structure failure due to damage (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage (6) Latch/striker and hinge failure due to damage (8) Other failure (specify): (9) Unknown (0) No glazing (1) No occupant contact to glazing (2) Glazing contacted by occupant but no glazing damage (3) Glazing in place and cracked by occupant contact (4) Glazing in place and holed by occupant contact (5) Glazing out-of-place (cracked or not) by occupant contact (6) Glazing out-of-place by occupant contact (7) Glazing removed prior to accident	(0) No door/gate/hatch or door not opened	39. WS <u>3</u> 40. LF <u>/</u> 41. RF <u>/</u> 42. LR <u>/</u> 43. RR <u>/</u>
(9) Unknown if contacted by occupant	 (1) Door operational (no damage) (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door structure failure due to damage (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage (6) Latch/striker and hinge failure due to damage (8) Other failure (specify): 	 (0) No glazing (1) No occupant contact to glazing (2) Glazing contacted by occupant but no glazing damage (3) Glazing in place and cracked by occupant contact (4) Glazing in place and holed by occupant contact (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact (6) Glazing out-of-place by occupant contact and holed by occupant contact (7) Glazing removed prior to accident (8) Glazing disintegrated by occupant contact

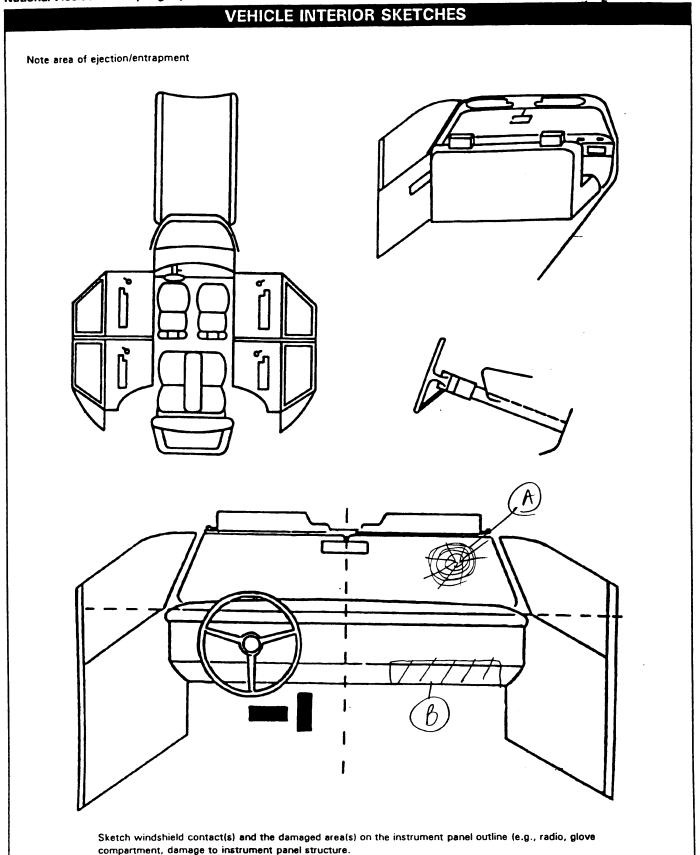


OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT **Dominant** Interior Components Intruding Location of Magnitude Crush (01) Steering assembly Component Intrusion of Intrusion Direction (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right 1st 47. / 3 48. / O 49. / 50. 3 (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 2nd 51.___ 52.___ 53.__ 54.__ (09) D-pillar (10) Side panel - forward of the A1/A2-pillar (11) Door panel (side) (12) Side panel - rear of the B-pillar 3rd 55.___ 56.__ 57.__ 58.__ (13) Roof (or convertible top) (14) Roof side rail (15) Windshield (16) Windshield header 4th 59.___ 60.__ 61.__ 62.__ (17) Window frame (18) Floor pan (includes sill) (19) Backlight header (20) Front seat back 5th 63.___ 64.__ 65.__ 66.__ (21) Second seat back (22) Third seat back (23) Fourth seat back (24) Fifth seat back 6th 67.___ 68.___ 69.___ 70.___ (25) Seat cushion (26) Back door/panel (e.g., tailgate) (27) Other interior component (specify): 7th 71.___ 72.___ 73.___ 74.__ **Exterior Components** (30) Hood 8th 75.___ 76.__ 77.__ 78.__ (31) Outside surface of this vehicle (specify): (32) Other exterior object in the environment (specify): 9th 79.___ 80.___ 81. 82. (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 83.___ 84.__ 85.__ 86.__ (99) Unknown LOCATION OF INTRUSION MAGNITUDE OF INTRUSION (1) ≥ 3 centimeters but < 8 centimeters Front Seat Fourth Seat ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (21) Left (98) Other enclosed (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown Third Seat DOMINANT CRUSH DIRECTION (1) Vertical (31) Left (2) Longitudinal (32) Middle (3) Lateral (33) Right (7) Catastrophic (9) Unknown

ST	EERIN	IG RIM/SPOKE DEFOR	MATIO	N	
	(/	All Measurements Are in Centimeters	s)		_
COMPARISON VALUE	_	DAMAGE VALUE	=	DEFORMATION	:
No		Deformation	=		
	_	is received from	=		
	_		=	-	
			=		
					-
					:
					-

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STEERING COLUMN	INSTRUMENT PANEL
87. Steering Column Type	92. Odometer Reading/
(1) Fixed column	kilometers
(2) Tilt column (3) Telescoping column	Code to the nearest 1,000 kilometers
(4) Tilt and telescoping column	(000) No odometer
(8) Other column type (specify):	(001) Less than 1,500 kilometers (500) 499,500 kilometers or more
(O) Helenous	(999) Unknown $96.497_{\text{miles}} \times 1.6093 = 155.292_{\text{kilometers}}$
(9) Unknown	· _
88. Tilt Steering Column Adjustment	Source: ODOMETER
(0) No tilt steering column	93. Instrument Panel Damage from
(1) Full up	Occupant Contact?
(2) Between full up and center	(O) No
(3) Center (4) Between center and full down	(1) Yes
(5) Full down	(9) Unknown
(9) Unknown	94. Type of Knee Bolster Covering
	(O) No knee bolster
89. Telescoping Steering Column Adjustment	(1) Padded (2) Rigid plastic
(0) No telescoping steering column	(8) Other (specify):
(1) Full back	(9) Unknown
(2) Between full back and midpoint	95. Knee Bolsters Deformed from
(3) Midpoint (4) Between midpoint and full forward	Occupant Contact?
(5) Full forward	(0) No knee boister
(9) Unknown	(1) No deformation
	(2) Yes - deformation (9) Unknown
90. Steering Rim/Spoke Deformation	
Code actual measured	96. Did Glove Compartment Door Open During Collision(s)?
deformation to the nearest centimeter (00) No steering rim deformation	(0) No glove compartment door
(01-14) Actual measured value in centimeters	(1) No - door did not open
(15) 15 centimeters or more	(2) Yes - door opened
(98) Observed deformation cannot be measured (99) Unknown	(9) Unknown
(99) Olikilowii	97. Adaptive (Assistive) Driving Equipment
	(0) No adaptive driving equipment
91. Location of Steering Rim/Spoke Of Deformation	 Adaptive driving equipment installed (Check all that apply.)
(00) No steering rim deformation	[] Hand controls for braking/acceleration
	[] Steering control devices (attached to OEM
Quarter Sections (01) Section A	steering wheel [] Steering knob attached to steering wheel
(02) Section B	[] Low effort power steering (unit or device)
(03) Section C	[] Replacement steering wheel (i.e., reduced
(04) Section D	diameter) [] Joy-stick steering controls
Half Sections	[] Wheelchair tie-downs
(05) Upper half of rim/spoke	[] Modification to seat belts (specify):
(06) Lower half of rim/spoke	[] Additional or relocated switches (specify):
(08) Right half of rim/spoke	
	[] Raised roof [] Wall-mounted head rest (used behind
(09) Complete steering wheel collapse (10) Undetermined location	wheelchair)
(99) Unknown	[] Other adaptive device (specify):
	(9) Unknown
	,5, 5,



Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

		F	POINTS OF OC	CUPANT CONTACT		
Contact	Interior Component Contacted	Occup No. Knov	If If	Supporting Physical	Fyidence	Confidenc Level of Contact Point
Contact	 		HEAD/FAC		GREASE	1
В	001	0	1 1 1 7	Broken Jamm		//
C	613	0	Leg's	DEBREN JAHAN	elo bijoeri	
D	 					
E						
F						
G						
Н						
ı						
J						
К						
L						
М						
N						
(006) Steering of codes of codes Steering column, transletor in attachme (008) Cellular tradio Add on education (010) Left instrubelow (011) Center instelow (012) Right instrubelow (013) Glove cor (014) Knee bols (015) Windshiel more of theader, A instrumer steering a side only (016) Windshiel more of theader, A instrumer (passeng (017) Windshiel exterior of theader, A instrumer (passeng (017) Windshiel exterior of theader, A instrumer (passeng (017) Windshiel exterior of the code (017) Windshiel exterior of the code (017) Windshiel exterior of column (018) Windshiel exterior of the code (018) Windshiel exterior of column (018) Windshiel	wheel hub/spoke wheel (combination OO4 and OO5) ansmission ever, other nt elephone or CB quipment(e.g., tape conditioner) ument panel and strument panel and rument panel and mpartment door ster id including one or he following: front (A1/A2)-pillar, nt panel, mirror, or issembly (driver id including one or he following: front (A1/A2)-pillar, nt panel, or mirror ar side only)	(052) (053) (054) (055) (056) (057) (058) (059) (060) RIGHT (101) (102) (103) (104) (105) (106) (107) (108) (109)	excluding hardware or armrests Left side hardware or armrest Left A (A1/A2)-pillar Left B-pillar Cother left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar or roof side rail. Other left side object (specify): SIDE Right side interior surface, excluding hardware or armrests Right side hardware or armrest Right B-pillar Other right pillar (specify): Right side window glass Right side window glass Right side window glass Right side window glass Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar or roof side rail. Other right side object (specify):	(163) Other interior object (specify): AIR BAG (170) Air bag-driver side (175) Air bag compartment cover-driver side (180) Air bag-passenger side (185) Air bag compartment cover-passenger side (190) Other air bag (specify) (195) Other air bag compartment cover (specify) ROOF (201) Front header (202) Rear header (203) Roof left side rail (204) Roof right side rail (205) Roof or convertible top	ADAPTIVE (ASSISTIVE QUIPMENT (401) Hand controls braking/accele (402) Steering control (attached to Owheel) (403) Steering knob steering wheel (405) Replacement (406) Joy stick steer (407) Wheelchair tie- (408) Modification to (specify): (409) Additional or reswitches, (specify): (410) Raised roof (411) Wall mounted (used behind w (412) Other adaptive (specify):	/E) DRIVING for ration ol devices EM steering attached to teering wheel slameter) ing controls downs o seat belts, elocated cify): head rest wheel chair)
				transmission lever, including console (253) Parking brake handle (254) Foot controls including parking brake	CONFIDENCE LEVEL POINT (1) Certain (2) Probable (3) Possible (9) Unknown	OF CONTACT

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below.

Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
FI	Availability	4	3	4,
	Evidence of usage	84	00	04
	Used in this crash?	00		•
R S	Proper Use	0		
Ť	Failure Modes	0		
	Anchorage Adjustment			
	Availability	3] 3	3
s	Evidence of usage	00	00	00
SECON	Used in this crash?			
ŏ	Proper Use			
N D	Failure Modes			
	Anchorage Adjustment	0		\Diamond
	Availability			
0	Evidence of usage			
Ť	Used in this crash?			
H	Proper Use			
E R	Failure Modes			
	Anchorage Adjustment			

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown
- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety
- seat
- (13) Lap belt used with child safety seat(14) Lap and shoulder belt used with
- child safety seat
 (15) Belt used with child safety seat
 type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

Proper Use of Manual (Active) Belts

- (0) None used or not available
- (1) Belt used properly
- (2) Belt used properly with child safety

Belt Used Improperly

- (3) Shoulder belt worn under arm
- (4) Shoulder belt worn behind back or seat
- (5) Belt worn around more than one person
- (6) Lap belt worn on abdomen
- (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of manual belt system (specify):
- (9) Unknown

Accident

Manual (Active) Belt Failure Modes During

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

Shoulder Belt Upper Anchorage Adjustment

- (0) No shoulder belt
- (1) No upper anchorage adjustment for shoulder belt

Adjustable shoulder Belt Upper Anchorage

- (2) In full up position
- (3) In mid position
- (4) In full down position
- (5) Position unknown
- (9) Unknown if position has adjustable upper anchorage adjustment

National Accident Sampling System-Crashworthiness Data System: Interior Vehicle Form -**AUTOMATIC RESTRAINTS** NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. **AIR BAGS** Left Front Right Front Other 0 Availability/Function 0 0 Deployment R S Failure Air Bag System Availability/Function Air Bag(s) Deployment, Other Than First Frontal Air Bag System Deployment (0) Not equipped/not available (This Occupant Position) Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Air bag (0) Not equipped/not available (1) Deployed during accident (as a result (1) Deployed during accident (as a result of impact) Non-functional of impact) (2) Air bag disconnected (specify): (2) Deployed inadvertently just prior to Deployed inadvertently just prior accident to accident (3) Air bag not reinstalled (3) Deployed, details unknown (3) Deployed, accident sequence (9) Unknown (4) Deployed as a result of a undetermined (4) Deployed as a result of a noncollision noncollision event during accident event during accident sequence Are There Indications of Air Bag sequence (e.g., fire, explosion, (e.g., fire, explosion, electrical) System Failure? (This Occupant Position) electrical) (0) Not equipped/not available (5) Unknown if deployed (5) Unknown if deployed (7) Nondeployed (1) No (7) Nondeployed (2) Yes (specify): (9) Unknown (9) Unknown (9) Unknown **AUTOMATIC BELTS** Left Right 0 Availability/Function F 0 Use 0 R Type S 0 **Proper Use** T Failure Modes Ò Automatic (Passive) Belt System Proper Use of Automatic (Passive) Belt Automatic (Passive) Belt Failure Modes Availability/Function System **During Accident** (0) Not equipped/not available (0) Not equipped/not available/not used (0) Not equipped/not available/not in use (1) 2 point automatic belts (1) Automatic belt used properly (1) No automatic belt failure(s) (2) 3 point automatic belts (2) Automatic belt used properly with (3) Automatic belts - type unknown child safety seat included) (3) Broken buckle or latchplate Non-functional Automatic Belt Used Improperly (4) Upper anchorage separated (4) Automatic belts destroyed or (3) Automatic shoulder belt worn under (5) Other anchorage separated (specify):

- rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):
- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

- (2) Torn webbing (stretched webbing not
- (6) Broken retractor
- Combination of above (specify):
- Other automatic belt failure (specify):
- (9) Unknown

FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
Type of air bag?	0	
Flaps open at tear points?	0	
Flaps damaged?	C	
Air bag damaged?	00	
Source of air bag damage	00	
Air bag tethered?	0	
Air bag have vent ports?	0	
Other occupant contact air bag?	0	
Occupant wearing eyewear?	Ŏ	

Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed
- (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal hums
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

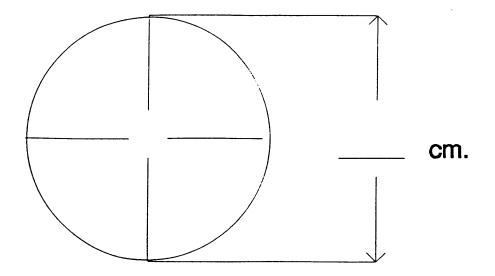
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was This Occupant Wearing Eye-wear?

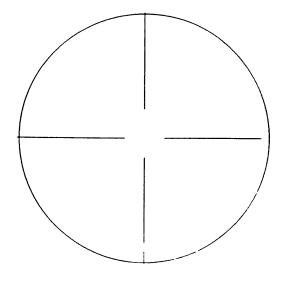
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



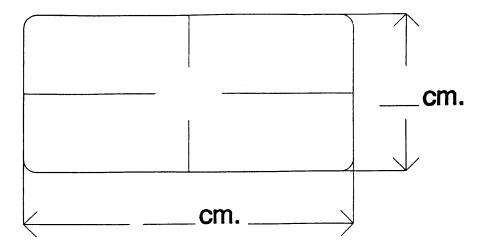
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)



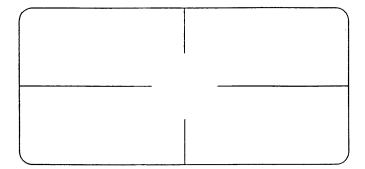
DRIVER AIR BAG S	KETCHES (Cont'd)
3. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap width (W _U) width (W _L) height (H _U) height (H _L) H, H, W,	
4. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	5. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
6. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS 11 12 1 10 2 9 3 8 4 7 6 5	

PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



PASSENGER AIR BAG	S SKETCHES (CONT d)
3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE) a. Flap width (W) height (H) H	4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap width (Wu) height (Hu) W H, H, W W W W W W H, H, H
5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS 10 11 12 1 2 9 3 8 7 6 5 4	

"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES
1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)
1. SKETCH DAMAGE AND CONTACT EVIDENCE ON OTHER AIR DAG (FORL)
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)

. "OTHER" AIR BAG SKETCHES (Cont'd)	
3. SKETCH AIR BAG MODULE FLAP AND SIZE OR OPENING FOR AIRBAG	
	•
4. SKETCH AIR BAG VENT PORTS	

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage	3	0	3
	Seat Type	04	04	04
	Seat Performance	I		
R	Seat Orientation	1	1	1
T	Seat Track Position	6	6	6
	Seat Back Incline Pre/Post Impact	01	01	01
	Head Restraint Type/Damage	0	0	0
9	Seat Type	03	03	۵3
S	Seat Performance			
C	Seat Orientation	<u> </u>)	1
N D	Seat Track Position		1	1
	Seat Back Incline Pre/Post Impact	01	01	0
	Head Restraint Type/Damage			
т	Seat Type			
Н	Seat Performance			
R	Seat Orientation			
	Seat Track Position			
	Seat Back Incline Pre/Post Impact			
	Head Restraint Type/Damage			
O T	Seat Type			
Н	Seat Performance			
E R	Seat Orientation			
	Seat Track Position			
	Seat Back Incline Pre/Post Impact			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

HEAD RESTRAINTS/SEAT EVALUATION

Head Restraint Type/Damage by Occupant at This Occupant Position Position)

- (O) No head restraints
- (1) Integral no damage(2) Integral damaged during accident
- (3) Adjustable no damage(4) Adjustable damaged during accident
- (5) Add-on no damage(6) Add-on damaged during accident
- Other
- Specify): (9) Unknown

Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01) **Bucket**
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant

- (0) Occupant not seated or no seat
- No seat performance failure(s)
- Seat adjusters failed
- Seat back folding locks or "seat back" failed (specify):
- Seat tracks/anchors failed
- (5)Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

Seat Track Adjusted Position Prior To impact

- (0) Occupant not seated or no seat
- (1) Non-adjustable seat track

Adjustable Seat Track

- (2) Seat at forward most track position
- (3) Seat between forward most and middle track positions
- (4) Seat at middle track position
- (5) Seat between middle and rear most track positions
- (6) Seat at rear most track position
- (9) Unknown

Seat Back Incline Prior and Post Impact

- (00) Occupant not seated or no seat
- (01) Not adjustable

Upright prior to impact

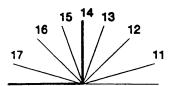
- (11) Moved to completely rearward position
- Moved to rearward midrange position
- (13)Moved to slightly rearward position
- Retained pre-impact position
- Moved to slightly forward (15)position
- (16)Moved to forward midrange position
- Moved to completely forward (17)position

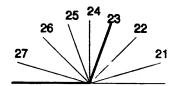
Slightly reclined prior to impact

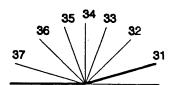
- (21) Moved to completely rearward position
- Moved to rearward midrange (22)position
- (23)Retained pre-impact postion
- Moved to upright position (24)
- (25)Moved to slightly forward position
- Moved to forward midrange (26)position
- (27)Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- Moved to rearward midrange (32)position
- (33)Moved to slightly rearward position
- Moved to upright position
- Moved to slightly forward (35) position
- (36) Moved to forward midrange position
- Moved to completely forward position
- (99) Unknown







Coding diagrams for Seat Back Incline Position Prior and Post Impact

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

			TY SEAT					
	Vhen a child safety seat is pre he occupant's number using							
(Occupant Number							
1	. Type of Child Safety Seat	N	ot	Ap	0)	icobl	و	
2	2. Child Safety Seat Orientation				1			
3	B. Child Safety Seat' Harness Usage							
4	. Child Safety Seat Shield Usage							
5	. Child Safety Seat Tether Usage							
6	i. Child Safety Seat Make/Model		Speci	fy Below 1	for Ead	ch Child Safe	ety Seat	
1	. Type of Child Safety Seat			4. Child	l Safe	ty Seat Shiel	d Usage	
	 (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety 	v seat (specif	y):	 Child Safety Seat Tether Usage Note: Options Below Are Used for Variable (00) No child safety seat Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether 			ether	
	(8) Unknown child safety (9) Unknown if child safet	y seat used		(02)	added After Child	d, not used market harn safety seat	ess/shield/tethused, but no a	her used
2	. Child Safety Seat Orientat (00) No child safety seat			(09)	Unkn	ess/shield/tet lown if harne d or used	her added ss/shield/tethe	∍r
	Designed for Rear Facing 1 This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (sp			(11) (12)	Harne Harne	ess/shield/tet ess/shield/tet	/Shield/Tether ther not used ther used ss/shield/tethe	
	(09) Unknown orientation Designed for Forward Faci Age/Weight	ng for This	-	(21) (22)	Harne Harne	ess/shield/tet ess/shield/tet	Vith Harness/S ther not used ther used ss/shield/tethe	
	(11) Rear facing (12) Forward facing (18) Other orientation (sp.	acify):		(99)	Unkn	own if child	safety seat us	ed
	(19) Unknown orientation	•	-	6. Child (Spec	Safet	ty Seat Make ake/model ar	n/Model nd occupant n	umber)
	Unknown Design or Orient Age/Weight, or Unknown (21) Rear facing (22) Forward facing (28) Other orientation (sp.	Age/Weight	s					
	(29) Unknown orientation							
3	(99) Unknown if child safe. Child Safety Seat Harness	ety seat used Usage						

	EJECTION/E	NTRAPME	NT DA	TA			
Complete the following if the resear in the vehicle. Code the appropriat	rcher has any in te data on the O	ndication that Occupant Asse	an occupa essment F	ant was eit orm.	her ejected	from or enti	apped
EJECTION No [X] Yes [Describe indications of ejection and] I body parts inv	olved in partia	al ejection	(s):			
							
					T]
Occupant Number							
Ejection							
(Note on Vehicle Interior Sketch) Ejection Area	·						
Ejection Medium							
Medium Status							
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown Ejection Area (1) Windshield	(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (1) Door/hatch/tailgate			(5) Integral structure (8) Other medium (specify): (9) Unknown Medium Status (Immediately Prior to Impact) (1) Open			rior
(2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	(3) Fixed (ed roof struct glazing ed glazing (sp		(2) C		ture	
ENTRAPMENT No [X] Yes	s []						
Describe entrapment mechanism:		 			····	· · · · · · · · · · · · · · · · · · ·	
Component(s):							
(Note in vehicle interior diagram)							

NASS CDS INTERVIEW FORM: CASE VEHICLE DRIVER

INTERVIEW FORM (A)

NATIONAL AGCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Administration Chashwon Ininess Data	SYSTEM
1. Primary Sampling Unit Number 10 Interviewee(s) Role or Name(s): DRIVER of	2
2. Case Number - Stratum 96/2 Case NEhicle	
3. Vehicle Number Phone number:	
Review all available information and interview questions prior to conducting interview(s) to ensure the acquisition of all pertinent data.	
If the driver was not the person interviewed, was an appointment made for a follow-up interview?	
DRIVER'S DESCRIPTION OF ACCIDENT EVENTS	
I was 5/B I SAW her come out from	m
SIDE STREET. I beeped hORN I then	
Slowed down, hit brakes we hit	
The AIR bags went off - Smoke IN	
CAR I went to back to check on	
other Kids cause I thought VAN	was
ON FIRE I got other 2 Kids out	
I thought was still in seat	7
behind AIR bag. I then RAN Anound	
SAW her on floor. I then started	
to PRAV.	
OCCUPANT'S DESCRIPTION OF ACCIDENT EVENTS	
Was belted - I thought she was	<u> </u>
Was belted - I thought she was I had just pulled over a few blocks back because JANA in back was fussing and took off her sea	se
JANA in back was fussing and took off her sea	t bel
When we started up in ked that it she	
didn't get a new Brseball mitt she would to	120
SPECIFIC QUESTIONS TO ASK INTERVIEWEE	
her scathelt off. A few seconds later	
the crash happened	

	ACCIDENT DIAG	RAW	
		Use this diagram to aid in relating interviewee accident trajectory data (i.e., pre-impact to FRP orientations) to identifiable objects in the environment.	;
	NORTH		
		·	
_			

CRASH DATA INFORMATION					
IF POSSIBLE OF	IF POSSIBLE OBTAIN THIS INFORMATION FROM THE DRIVER:				
SOURCE OF INFORMATION:	Driver [] Other occupant [] Relative/friend				
TRAVEL DIRECTION?	[] North [] East [] West (Or where were they coming from or going to?)				
LANE?	[X] 1 [] 2 [] 3 [] 4 [] Other Note: lane 1 is the right curb lane				
ROAD CONDITION?	[] Dry [] Wet [] Snow [] Slush [] Ice [] Sand, dirt, oil [] Other (specify)				
WEATHER CONDITIONS? (Check all that apply)	No adverse conditions No adverse conditions Rain Fog Sleet Hail Snow Other (specify)				
	[] Traffic control signal (includes flashing beacons, lane control signals, and green / amber / red signal)				
SIGN OR SIGNAL PRESENT?	[] Stop sign				
(check all that apply)	Other regulatory sign (No "U" turn, left turn only, wrong way, etc.) specify:				
	[] Warning sign (Winding road sign, stop ahead, intersection signs, etc.) specify:				
	[] Miscellaneous control (including railroad controls) specify:				
WAS THE CONTROL FUNCTIONING PROPERLY?	 No traffic control device present Not functioning properly (includes defaced, badly worn, covered with snow, rotated etc.) specify: Functioning properly Unknown 				
SPEED BEFORE THE IMPACT? (in mph)	[] Stopped [] 11-20 [] 31-40 [] 51-60 [] 70+ [] 1-10 [] 21-30 [] 41-50 [] 61-70 [] Unknown				
BEFORE IMPACT, INTENDING TO ? (check all that apply)	Go straight [] Stopped [] Turn left [] Turn right [] Slow down [] Accelerate [] Back up [] Change lanes to right [] Other (specify): [] Change lanes to left				
CONTROL LOSS DUE TO WEATHER OR MECHANICAL PROBLEMS?	No [] Unknown [] Yes (describe)				
AVOIDANCE ACTIONS?	[] None [] Braking with lock-up				
LOCATION OF VEHICLE AT TIME OF IMPACT?	Original travel lane [] Different travel lane [] In intersection [] Off roadway to left [] Other (specify):				
SPEED AT THE TIME OF IMPACT? (in mph)	[Stopped 11-20				
DESCRIBE ALL THE IMPACTS to the vehicle and how this vehicle moved to its stopped position, after the collision?	After CAR hit me CAR Slid over hit street sign and stopped.				

,	ROLLOVER DATA
DID THIS VEHICLE ROLL OVER	•
[] YES ASK THE FOLLOWING C	DUESTIONS [] UNKNOWN SKIP TO "FIRE DATA" BELOW
ROLLOVER BEGAN	[] On roadway [] On shoulder [] On roadside or median [] Unknown
OLLOVER CAUSE?	[] Other vehicle (specify vehicle number) [] Contact to object (specify): [] Other cause (specify): [] Unknown
PIRECTION OF VEHICLE ROLL?	[] Toward the right (passenger side) [] Toward the left (driver side) [] End-over-end [] Unknown
UMBER OF TURNS	Number of QUARTER TURNS [] UnknownNumber of COMPLETE TURNS
LANE IN CONTACT WITH ROUND AT FINAL REST?	[] Left side [] Top [] Right side [] Wheels [] Unknown
	FIRE DATA
ID THIS VEHICLE EXPERIENCE	[X] NO SKIP THIS SECTION
RE STARTED, OR SMOKE 'AS FIRST SEEN	[] Under the hood [] In the trunk/cargo area [] Behind the instrument panel [] Under the vehicle [] In the passenger compartment [] From other involved vehicle [] Unknown
AS FIRST SEEN RE START WITH THE ECTRICAL SYSTEM?	[] Behind the instrument panel [] Under the vehicle [] In the passenger compartment [] From other involved vehicle
RE START WITH THE LECTRICAL SYSTEM? No [] Unknown RE START WITH THE FUEL	[] Behind the instrument panel [] Under the vehicle [] In the passenger compartment [] From other involved vehicle [] Unknown [] Yes (specify): [] Yes specify Which part of the fuel system may have been involved? [] Fuel tank
IRE STARTED, OR SMOKE VAS FIRST SEEN IRE START WITH THE LECTRICAL SYSTEM?] No [] Unknown IRE START WITH THE FUEL YSTEM?] No [] Unknown	[] Behind the instrument panel [] Under the vehicle [] From other involved vehicle [] Unknown [] Yes (specify):

ADDI	TIONAL VEHICLE INFORMATION
YEAR, MAKE AND MODEL?	Year: 19 9 4 Make: Plymown Model: Voy Ager
PREVIOUS OR POST-CRASH DAMAGE?	X No [] Yes - describe: [] Unknown
DOORS OR HATCH OPEN DURING THE CRASH?	No [] Yes [] LF [] RF [] LR [] RR [] HATCH [] OTHER [] Unknown
WINDOWS BREAK DURING THE CRASH?	[] No Check all that apply [X] Yes [X] WS [] LF [] RF [] LR [] RR [] BL [] Roof [] Other
	[] Unknown
WINDOW PRECRASH STATUS	[] WS [] LF [] RF [] LR [] RR [] BL [] Roof [] Other
GLOVE COMPARTMENT DOOR OPEN DURING THE CRASH?	[] No [] Yes - describe:
CARGO IN THE VEHICLE?	[] No [] Unknown [X] Yes - describe: Home Interior Stuff Approximate weight - 25 pounds
VEHICLE MILEAGE	miles [] Unknown
IF VEHICLE HAS NOT BEEN INSPECTED	Current location of the vehicle: Contact person:
Detail any notes, questions to ask in directions to vehicle location:	nterviewee (i.e., rescue personnel damage to vehicle) or

SPECIAL CRASH IN	VESTIGATION ADDENDUM: DRIVER INFORMATION
Do you recall the type of development in the area of the crash?	Residential [] Commercial [] Industrial [] Agricultural [] Undeveloped [] School [] Other:
What were the weather conditions at the time of the crash?	Clear (no clouds, no precipitation) Cloudy (partially cloudy, no precipitation) Overcast (full cloud cover, no precipitation) Precipitating Unknown
What was the type of pre- cipitation?	Mo precipitation [] Unknown [] Raining [] Freezing rain [] Sleeting [] Snowing [] Hailing
What was the condition of the road surface?	[] Dry [] Wet [] Snowy, slushy [] Icy [] Other (e.g., sand, dirt, oil on surface, etc.) [] Unknown
How would you describe the amount of traffic at the time of the crash?	[] Heavy [] Moderate [] No other traffic present
What is your occupation?	[] Professional [] Technical [] Government official [] Management [] Proprietors [] Sales [] Clerical [] Craftsman and foreman [] Service worker [] Student [] Farmers and farm-managers [] Farm labors and foreman [] Private household worker [] Housewife [] Other:
How long have you driven this vehicle?	Years: 2 Months: 8 and 93'
How many miles do you think that you have driven it in the last 12-month period?	Miles: 34 of totAL - 2 yrs 8mo
How often do you drive this particular roadway?	[] Daily [] Twice weekly 3 × [] Once weekly [] Twice monthly [] Very infrequently [] First time on road
Where were you coming from just prior to the crash?	
Where were you intending to go when the crash occurred?	[] Home [] Work [] School [] Shopping PAYING [] Social/recreational [] Restaurant Light Bill [Missing Personal Business [] Other:

0001	IDANT DATA OUE	CTIONO	
0000	PANT DATA QUE	STIONS	
HOW MANY PEOPLE WERE IN THE VEHICLE	E AT THE TIME OF TH	F CRASH?	
	DRIVER	OCCUPANT # 2	OCCUPANT # 3
SEATING POSITION? Front Left (FL) Second Left (2L) Front Middle (FM) Second Middle (2M) Front Right (FR) Second Right (2R) Third Left (3L) Other (SPECIFY in block) Third Middle (3M) Third Right (3R)	FRONT LEFT	FR	24
SEX, HEIGHT, WEIGHT, AND AGE? CIRCLE DRIVER'S RACE: White Black American Indian 167. Eskimo or Aleut Asian or Pacific Islander Other (specify): Unknown OCCUPANT POSTURE	DRIVER OF HISPANIC ORIGIN?	M F - Not pregnant F - Pregnant - # of months F - Unk. if pregnant HEIGHT:	WEIGHT: 27 AGE: 2
A) Kneeling or standing on seat B) Lying on or across seat C) Kneeling, standing or sitting in front of seat D) Sitting sideways, turned to side or back E) Sitting on console F) Lying back in reclined position G) Other (specify) H Unknown	[] Leaning to left [] Leaning to right	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above	[] Leaning to left [] Leaning to right] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above
FEET AND HANDS/ARMS LOCATION JUST PRIOR TO IMPACT	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed
FEET A) On floor or foot controls B) One or both on dash C) One or both on seat D) Other (specify) E) Unknown	$ \bigcirc $	HANGING OVER Seat	→ Ditho
HANDS / ARMS F) Both hands on steering wheel G) One on wheel, other hand resting or adjusting a control (specify hand on wheel and control involved) H) Dialing a cellular phone (specify location and type of phone) I) Holding a cellular phone (specify location and type of phone) J) Bracing with one or both hands K) On lap L) One or both out of window (specify) M) Other (specify) N) Unknown	(F)	on IAP holding Pocket Book	Holding/Enting box of popcorn

• .	OCCUPANT DATA	QUESTIONS (continued)	
	T		
	DRIVER	OCCUPANT # 🗹	OCCUPANT # 3
BACK UP AGAINST THE SEAT BACK?	[] No (describe) [] Yes [] Unknown	[] No (describe) [XYes [] Unknown	No (describe) H Yes Unknown
ADJUSTABLE SEAT TRACK, IF "YES" WHERE WAS THE TRACK PRIOR TO IMPACT?	[] Not adjustable [] Seat all the way forward [] Between forward and middle [] At middle position [] Between middle and rear position [] Seat all the way rearward [] Unknown	[] Not adjustable [] Seat all the way forward [] Between forward and middle [] At middle position [] Between middle and rear position [] Seat all the way rearward [] Unknown	Not adjustable [] Seat all the way forward [] Between forward and middle [] At middle position [] Between middle and rear position [] Seat all the way rearward [] Unknown
ADJUSTABLE SEAT BACK, IF "YES" WHERE WAS THE BACK PRE AND POST IMPACT	PRE POST [] [] Not adjustable [] Completely upright [] [] Slightly reclined [] Completely reclined [] Slightly forward of	PRE POST [] [] Not adjustable [] [] Completely upright [] [] Slightly reclined [] Completely reclined [] Slightly forward of upright [] Completely forward [] Unknown	PRE POST I Not adjustable I Completely upright I Slightly reclined Slightly forward of upright Completely forward Unknown
TILT STEERING COLUI ADJUSTMENT PRIOR TO IMPACT TELESCOPING STEERI	Center [] Full dov NG Not adju	[] Between center	
COLUMN PRIOR TO IN	IPACT [] Midpoint [] Full forw		and full forward
X No Yes - describe type: (e Unknown (Note to res			
[] Talking to or listeni [] Was there a moving [] Talking or listening [] Dialing a cellular ph [] Adjusting climate c [] Adjusting radio, CD [] Using other device [] Sleepy / asleep (sp	ng to another occupant (speg object in vehicle (specify): on a cellular phone (specify); ontrol (specify): or cassette player (specify); or object in vehicle (specify); de person, object, or event (specify);	cify):	

RESTRAINT INFORMATION			
	DRIVER	OCCUPANT # 2	OCCUPANT # 3
TYPE OF SEAT BELT AVAILABLE NOTE: If a belt is not available for a seat position describe reason	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available * * Describe:	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available * * Describe:	[] Unknown Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available *
DO BELTS MOVE ALONG A MOTORIZED TRACK FOR THIS SEAT? 19, 22 point automatic belt!	[] Unknown [] No [] Yes *	[] Unknown [] No [] Yes *	[] Unknown [] No [] Yes *
AF TYES": WEREITHEY WORKING PROPERLY?	[] Yes [] No (describe)	[] Yes [] No (describe)	[] Yes [] No (describe)
ARE ANY BELTS ATTACHED TO THE DOOR? (Le., 3 - point automatic belt)	[] Unknown [] No [] Yes *	[] Unknown [X] No [] Yes *	[] Unknown [] No [] Yes *
* #FTYES", DOES IT CROSS:	Chest Lap Both	Chest Lap Both	Chest Lap Both
OCCUPANT WEARING ANY SEATBELT?	X No [] Yes [] Unknown	[] No I TYPU [] Yes YES [H Unknown	Yes I Unknown
SKIPTHE FOLKOWN	(c) IF N(o) SE	AT BELT W	45 WORN
TYPE OF BELT WORN?	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown	Lap belt Shoulder belt Lap & Shoulder Unknown
LAP BELT SITUATED?	[] Low on lap [] Across stomach [] Other (specify): [] Unknown	[] Low on lap [] Across stomach [] Other (specify): [] Unknown	[] Low on lap [] Across stomach [] Other (specify):
	[] Over shoulder [] Under the arm [] Behind back	[] Over shoulder [] Under the arm [] Behind back	[] Over shoulder [] Under the arm [X] Behind back
SHOULDER BELT SITUATED?	Behind seat Other (specify):	[] Behind seat [] Other (specify):	[] Behind seat [] Other (specify):
Describe any breaks, tears, or failures to a	ny of the seat belts:	Both Kids	in back
had shoulder be was in their t	elts behin	d them.	since It
was in their t	aces		

	DRIVER	OCCUPANT # Z	OCCUPANT # 3
ANY PART OF BODY THROWN OUTSIDE THE VEHICLE DURING THE CRASH?	[A] No [] Yes * [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	No [] Yes * [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	No I Yes ' I Unknown If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.
ANYONE PINNED IN THE VEHICLE?	No Yes physically pinned jammed doors fire, etc. Unknown Detail any entrapment	[→ No [] Yes physically pinned jammed doors fire, etc. [] Unknown Detail any entrapment	[⊀] No [] Yes physically pinned jammed doors fire, etc. [] Unknown Detail any entrapment
HOW DID OCCUPANT(S) EXIT THE VEHICLE?	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [X Exited under own power [] Fully ejected [] Unknown	[] Fatal before removed Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown

AIR BAG INFORMATION			
WAS THIS VEHICLE EVER EQU	IPPED WITH AN AIR	BAG?	
YES (IF "YES" COMP	PLETE THIS SECTION	I) "UNKNOWN" SKIP T	HIS SECTION)
	DRIVER SIDE FRONTAL	PASSENGER SIDE FRONTAL OCCUPANT #	"OTHER" AIR BAG SPECIFY: OCCUPANT #
VEHICLE BEEN IN ANY PREVIOUS CRASHES? [X] NO [] YES - continue to right [] UNKNOWN - go to box below	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED
TYPE OF AIR BAG?	Original equipment Retrofitted Replacement Unknown	Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown
PRIOR SERVICE ON THE AIR BAG SYSTEM?	No [] Unknown [] Yes - Specify:	ATNo [] Unknown [] Yes - Specify:	[] No []Unknown [] Yes - Specify:
DID AIR BAG INFLATE DURING THIS CRASH?	Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk
WAS THIS PERSON WEARING ANY TYPE OF EYE-WEAR (EYE/ SUNGLASSES OR CONTACT LENSES) ANY JEWELRY, OR HAVE ANY OBJECTS IN MOUTH OR HAND?	[] No [] Unknown ATYes - Specify: BY NG/ASSES	[] No [] Unknown DYYes - Specify: GUNY / ASSES.	[] No [] Unknown [] Yes - Specify:
WAS THE AIR BAG IN THIS POSITION CONTACTED BY ANOTHER OCCUPANT?	No [Unknown [Yes - Specify:	No { Unknown Yes - Specify:	[] No
Describe any additional informati	on here:	L	

		SAFETY SEAT INFORMATION		
		LD SAFETY SEAT IN THIS VEH	HICLE	<u>:</u> ?
YES (IF "Y	res" com	PLETE THIS SECTION)		
[] NO [] UNK	NOWN (IF "NO" OR "UNKNOWN" SKI		IS SECTION)
	DRIVER	OCCUPANT # 3	T	OCCUPANT #
MAKE AND MODEL OF THE SAFETY SEAT?		OCCUPANT # 3 Bought@ K-MART, It's At GRANDINAS	<u></u>	
TYPE OF SEAT?		[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:		Infant Toddler Convertible Booster Integral Other Specify:
DIRECTION FACING PRIOR TO THE CRASH?		[X Front [] Rearward [] Unknown	[]	Front Rearward Unknown
VEHICLE'S SEAT BELT USED TO HOLD THE SEAT IN PLACE?		[] No Y Yes [] Unknown	[]	No Yes Unknown
HOW WAS THE VEHICLE'S SEAT BELT SECURED TO THE CHILD SEAT?		 Looped through designated rear framing studs Looped through arm rest slots Belt across safety shield Looped through rear frame outside the designated framing struts Other (specify): 		Looped through designated rear framing studs Looped through arm rest slots Belt across safety shield Looped through rear frame outside the designated framing struts Other (specify):
WHAT WAS THE CHILD SEAT EQUIPPED WITH AT TIME OF PURCHASE?		[] Harness [] Shield [] Tether [] Unknown		Harness Shield Tether Unknown
ANY OF THESE ADDED AFTER THEY OWNED THE SAFETY SEAT?		[] Harness [] Shield [] Tether [Mone [] Unknown		Harness Shield Tether None Unknown
Describe any additional information here: TORSO belt behind them.				

INJURY INFORMATION			
	DRIVER	occupant # 2	OCCUPANT # 3
WERE YOU INJURED? ► If "YES" go to manikin page and record injuries in detail ► If "NO" ask next questions	[] No ├──] Yes [] Unknown	[] No [X Yes [] Unknown	No I Yes I Unknown
DID YOU HAVE ANY OF THE FOLLOWING: (If any injuries are checked, go to the manikin page and record location, lesion, and source)	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other - specify on manikin	Cuts Abrasions Bruises Broken bones Head, skull, brain Internal injury Sprains, strains Other - specify on manikin	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other - specify on manikin
TRANSPORTED DIRECTLY FROM ACCIDENT SCENE FOR TREATMENT?	No Yes Unknown	{ } No [★] Yes { } Unknown	No I Yes I Unknown
RECEIVE ANY MEDICAL TREATMENT? (check all that apply)	[] Hospital [] Medical clinic [] Paramedics at scene [※] Doctor's office [] Treated by self [] Unknown	Hospital Medical clinic Paramedics at scene Doctor's office Treated by self Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown
HOSPITALIZED?	No [] Yes - # of days [] Unknown	No Yes - # of days Unknown	[] No [] Yes - # of days [] Unknown
TREATED AND RELEASED FROM THE EMERGENCY ROOM?	No I Yes Unknown	No Yes Unknown	[] No [] Yes [] Unknown
NAME OF MEDICAL TREATMENT FACILITY?	Doctors office	the the	
RECEIVE ANY FOLLOW-UP TREATMENT?	No No Nest the second of the s	[] No [] Yes - describe any additional injuries diagnosed:	[] No [] Yes - describe any additional injuries diagnosed:
	[] Unknown	[] Unknown	[] Unknown
LOST ANY DAYS FROM WORK OR SCHOOL (COLLEGE) DUE TO THE CRASH?	Not working prior to crash	No Not working prior to crash Yes - # of days Unknown	No Not working prior to crash Yes - # of days Unknown
IF REQUIRED:		[] No	[] No
WILL YOU SIGN A MEDICAL RELEASE?	Unknown	[] Yes* [] Unknown	[] Yes* [] Unknown
• If not an in-person interview, make appointment to have release signed	TIME:	TIME:	DATE: TIME: PLACE:

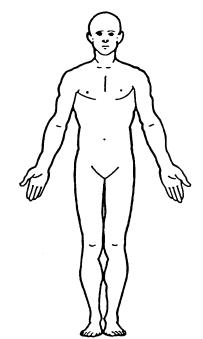
PSU Number 10 Case Number-Stratum 9612 Vehicle Number 01

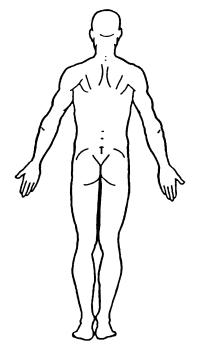
Occupant Number 0/

INJURY DATA FROM INTERVIEWEE(S)

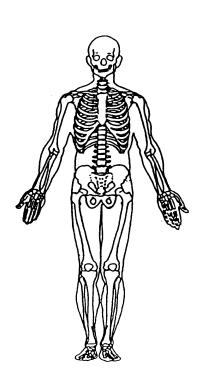
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s): DIZIVER

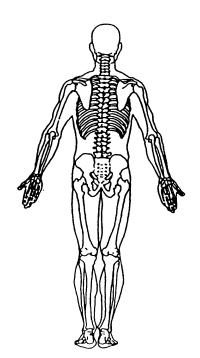






SKELETAL INJURIES



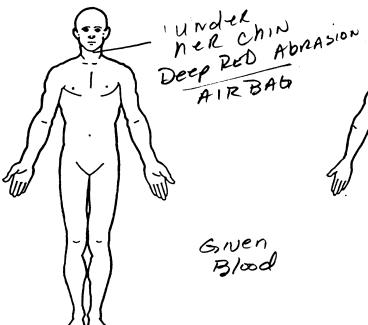


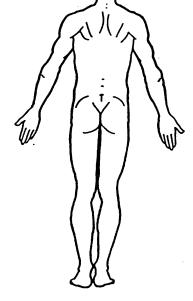
The space provided on the back of this page may be used to further detail injuries noted by the interviewee(s)

INJURY DATA FROM INTERVIEWEE(S)

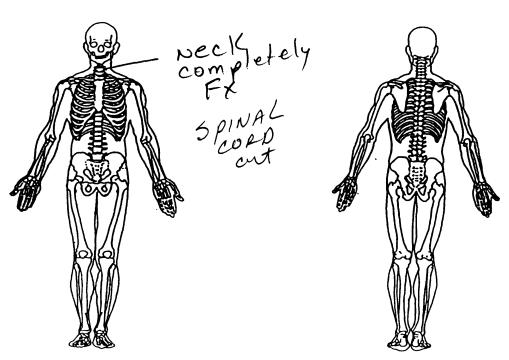
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s): DRIVER

SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES



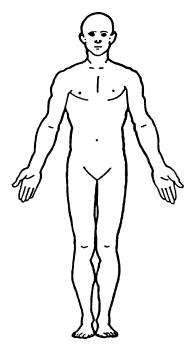
The space provided on the back of this page may be used to further detail injuries noted by the interviewee(s).

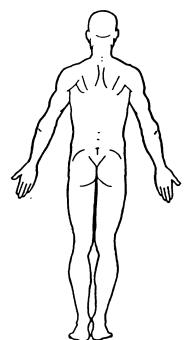
PSU Number 10 Case Number – Stratum 9612 Vehicle Number 01 Occupant Number 03

INJURY DATA FROM INTERVIEWEE(S)

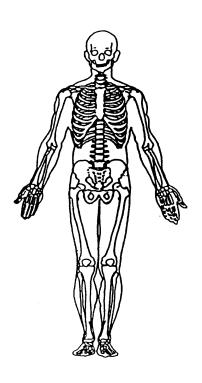
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):

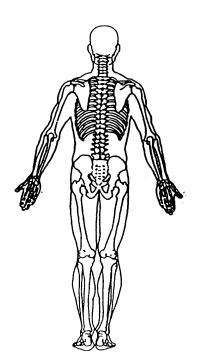
SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES





The space provided on the back of this page may be used to further detail injuries noted by the interviewee(s).



U.S. Department of Transportation

OCCUPANT DATA QUESTIONS

National Highway Traffic Safety Administration	UPPLEMENT FO	RM NATIONAL	. ACCIDENT SAMPLING SYSTE SHWORTHINESS DATA SYSTE
1. Primary Sampling Unit Number $\frac{1}{2}$. Case Number - Stratum $\frac{9}{6}$	Interviewee(s) Ro	ole or Name(s):	RIVER
3. Vehicle Number	Phone number:		
OCCUPANT DATA QUESTIONS			
	OCCUPANT #	OCCUPANT #	OCCUPANT #
SEATING POSITION? Front Left (FL) Second Left (2L) Front Middle (FM) Second Middle (2M) Front Right (FR) Second Right (2R) Third Left (3L) Other (SPECIFY in block) Third Middle (3M) Third Right (3R)	2 m		
SEX, HEIGHT, WEIGHT, AND AGE?	M [] F - Not pregnant [] F - Pregnant - # of months [] F - Unk. if pregnant HEIGHT: 39 WEIGHT: 35 AGE: 3	[] M [] F - Not pregnant [] F - Pregnant - # of months [] F - Unk. if pregnant HEIGHT: WEIGHT:	[] M [] F - Not pregnant [] F - Pregnant - # of months [] F - nk. if pregnant HEIGHT: WEIGHT:
OCCUPANT POSTURE A) Kneeling or standing on seat B) Lying on or across seat C) Kneeling, standing or sitting in front of seat D) Sitting sideways, turned to side or back E) Sitting on console F) Lying back in reclined position G) Other (specify) H Unknown	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above
Describe any additional information here:			

OCCUPANT DATA QUESTIONS (continued)			
	OCCUPANT#	OCCUPANT#	OCCUPANT #
FEET AND HANDS/ARMS LOCATION JUST PRIOR TO IMPACT	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed
FEET A) On floor or foot controls B) One or both on dash C) One or both on seat D) Other (specify) E) Unknown	Feet harging over booster		
HANDS / ARMS F) Both hands on steering wheel G) One on wheel, other hand resting or adjusting a control (specify hand on wheel and control involved) H) Dialing a cellular phone (specify location and type of phone) I) Holding a cellular phone (specify location and type of phone) J) Bracing with one or both hands K) On lap L) One or both out of window (specify) M) Other (specify) N) Unknown	K		
BACK UP AGAINST THE SEAT BACK?	[] No (describe) I∕∕] Yes [] Unknown	[] No (describe) [] Yes [] Unknown	[] No (describe) [] Yes [] Unknown
ADJUSTABLE SEAT <i>TRACK</i> , IF "YES" WHERE WAS THE TRACK PRIOR TO IMPACT?	Not adjustable [] Seat all the way forward [] Between forward and middle [] At middle position [] Between middle and rear position [] Seat all the way rearward [] Unknown	[] Not adjustable [] Seat all the way forward [] Between forward and middle [] At middle position [] Between middle and rear position [] Seat all the way rearward [] Unknown	[] Not adjustable [] Seat all the way forward [] Between forward and middle [] At middle position [] Between middle and rear position [] Seat all the way rearward [] Unknown
ADJUSTABLE SEAT <u>BACK</u> , IF "YES" WHERE WAS THE <u>BACK</u> PRE AND POST IMPACT	PRE POST [] [] Not adjustable	PRE POST [] [] Not adjustable [] [] Completely	PRE POST [] [] Not adjustable [] [] Completely upright [] [] Slightly reclined [] [] Completely reclined [] Slightly forward of upright [] Completely forward [] Unknown

RES	TRAINT INFORMA	TION	·
,	OCCUPANT # 4	OCCUPANT #	OCCUPANT #
TYPE OF SEAT BELT AVAILABLE NOTE: If a belt is not available for a seat position describe reason	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available * * Describe:	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available *	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available * * Describe:
DO BELTS MOVE ALONG A MOTORIZED TRACK FOR THIS SEAT? (i.e., 2 - point automatic belt)	[] Unknown [] No [] Yes *	[] Unknown [] No [] Yes *	[] Unknown [] No [] Yes *
* IF "YES", WERE THEY WORKING PROPERLY?	[] Yes [] No (describe):	[] Yes [] No (describe):	[] Yes [] No (describe):
DO ANY OF THE BELTS ATTACH TO THE DOOR? (i.e., 3 - point automatic belt)	[] Unknown [] No [] Yes *	[] Unknown [] No [] Yes *	[] Unknown [] No [] Yes *
* IF "YES", DOES IT CROSS:	Chest Lap Both	Chest Lap Both	Chest Lap Both
OCCUPANT WEARING ANY	[] No [X] Yes	[] No [] Yes	[] No [] Yes
SEATBELT?	[] Unknown	[] Unknown	[] Unknown
SEATBELT? SKIP THE FOLLOWING			
SKIP THE FOLLOWING	Lap belt Shoulder belt Lap & Shoulder Unknown Low on lap Across stomach Other (specify):	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown [] Low on lap [] Across stomach [] Other (specify):	S WORN [] Lap belt [] Shoulder belt [] Lap & Shoulder
SKIP THE FOLLOWING TYPE OF BELT WORN?	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown [] Low on lap [] Across stomach	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown [] Low on lap [] Across stomach [] Other (specify):	S WORN [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown [] Low on lap [] Across stomach
SKIP THE FOLLOWING TYPE OF BELT WORN?	[] Lap belt [] Shoulder belt [] Shoulder belt [] Lap & Shoulder [] Unknown [] Low on lap [] Across stomach [] Other (specify): ACROSS Shield ACROS	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown [] Low on lap [] Across stomach [] Other (specify):)	S WORN [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown [] Low on lap [] Across stomach [] Other (specify):

	OCCUPANT # \frac{1}{2}	OCCUPANT #	OCCUPANT #
ANY PART OF BODY THROWN OUTSIDE THE VEHICLE DURING THE CRASH?	No [] Yes * [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	[] No [] Yes * [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	[] No [] Yes * . [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.
ANYONE PINNED IN THE VEHICLE?	No Yes physically pinned jammed doors fire, etc. Unknown Detail any entrapment	[] No [] Yesphysically pinnedjammed doorsfire, etc. [] Unknown Detail any entrapment	[] No [] Yesphysically pinnedjammed doorsfire, etc. [] Unknown Detail any entrapment
HOW DID OCCUPANT(S) EXIT THE VEHICLE? Further describe any ejection, entrapment	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown , or mobility informati	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown ion here:	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown

AIR BAG INFORMATION			
WAS THIS VEHICLE EVER EQUIPPED WITH AN AIR BAG?			
[] YES (IF "YES" COMP	PLETE THIS SECTION	I)	
[X]NO []UNKNOWN	(IF "NO" OR '	"UNKNOWN" SKIP TI	HIS SECTION)
	OCCUPANT #	OCCUPANT #	OCCUPANT #
	"OTHER" AIR BAG SPECIFY:	"OTHER" AIR BAG' SPECIFY:	"OTHER" AIR BAG SPECIFY:
VEHICLE BEEN IN ANY PREVIOUS CRASHES? [] NO [] YES - continue to right [] UNKNOWN - go to box below	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed
	IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED
TYPE OF AIR BAG?	[] Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown
PRIOR SERVICE ON THE AIR BAG SYSTEM?	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:	[] No []Unknown [] Yes - Specify:
DID AIR BAG INFLATE DURING THIS CRASH?	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk
WAS THIS PERSON WEARING ANY TYPE OF EYE-WEAR (EYE/ SUNGLASSES OR CONTACT LENSES) ANY JEWELRY, OR HAVE ANY OBJECTS IN MOUTH OR HAND?	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:
WAS THE AIR BAG IN THIS POSITION CONTACTED BY ANOTHER OCCUPANT?	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:
Describe any additional information	on here:		

	CHILD SAFETY SE	AT INFORMATION		
WAS THERE A PERSON I	WAS THERE A PERSON IN A CHILD SAFETY SEAT IN THIS VEHICLE?			
(X) YES (IF "YE	S" COMPLETE THIS S	SECTION)		
[] NO [] UNKNO	OWN (IF "NO" OR "	'UNKNOWN" SKIP THIS	S SECTION)	
	OCCUPANT # 4	OCCUPANT #	OCCUPANT #	
MAKE AND MODEL OF THE SAFETY SEAT?				
TYPE OF SEAT?	[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:	[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:	[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:	
DIRECTION FACING PRIOR TO THE CRASH?	Front [] Rearward [] Unknown	[] Front [] Rearward [] Unknown	[] Front [] Rearward [] Unknown	
VEHICLE'S SEAT BELT USED TO HOLD THE SEAT IN PLACE?	[] No Yes [] Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown	
HOW WAS THE VEHICLE'S SEAT BELT SECURED TO THE CHILD SEAT?	Looped through designated rear framing studs Looped through arm rest slots Belt across safety shield Looped through rear frame outside the designated framing struts Other (specify):	[] Looped through designated rear framing studs [] Looped through arm rest slots [] Belt across safety shield [] Looped through rear frame outside the designated framing struts [] Other (specify):	[] Looped through designated rear framing studs [] Looped through arm rest slots [] Belt across safety shield [] Looped through rear frame outside the designated framing struts [] Other (specify): [] Unknown	
WHAT WAS THE CHILD SEAT EQUIPPED WITH AT TIME OF PURCHASE?	[] Harness [] Shield [] Tether [] Unknown	[] Harness [] Shield [] Tether [] Unknown	[] Harness [] Shield [] Tether [] Unknown	
ANY OF THESE ADDED AFTER THEY OWNED THE SAFETY SEAT?	[] Harness [] Shield [] Tether 出 None [] Unknown	[] Harness [] Shield [] Tether [] None [] Unknown	[] Harness [] Shield [] Tether [] None [] Unknown	
Describe any additional in	formation here:			

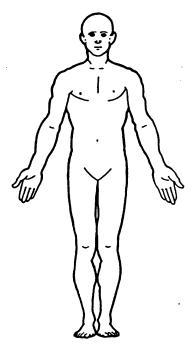
INJURY INFORMATION			
	OCCUPANT # 4	OCCUPANT #	OCCUPANT #
WERE YOU INJURED? • If "YES" go to manikin page and record injuries in detail • If "NO" ask next questions	⊠ No [] Yes [] Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown
DID YOU HAVE ANY OF THE FOLLOWING: (If any injuries are checked, go to the manikin page and record location, lesion, and source)	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other specify on manikin	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other specify on manikin	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other specify on manikin
TRANSPORTED DIRECTLY FROM ACCIDENT SCENE FOR TREATMENT?	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown
RECEIVE ANY MEDICAL TREATMENT? (check all that apply)	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown
HOSPITALIZED?	[] No [] Yes - # of days ————————————————————————————————————	[] No [] Yes - # of days [] Unknown	[] No [] Yes - # of days [] Unknown
TREATED AND RELEASED FROM THE EMERGENCY ROOM?	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown
NAME OF MEDICAL TREATMENT FACILITY?			·
RECEIVED ANY FOLLOW- UP TREATMENT?	[] No [] Yes - describe any additional injuries diagnosed:	[] No [] Yes - describe any additional injuries diagnosed:	[] No [] Yes - describe any additional injuries diagnosed:
LOST ANY DAYS FROM WORK OR SCHOOL (COLLEGE) DUE TO THE CRASH?	[] No [X] Not working prior to crash [] Yes - # of days [] Unknown	[] Unknown [] No [] Not working prior to crash [] Yes - # of days [] Unknown	[] No [] Not working prior to crash [] Yes - # of days
IF REQUIRED: WILL YOU SIGN A MEDICAL RELEASE? * If not an in-person interview, make appointment to have release signed	[] No [] Yes* [] Unknown DATE: TIME: PLACE:	[No [Yes* [Unknown DATE: TIME: PŁACE:	[No [Yes* [Unknown DATE: TIME: PLACE:

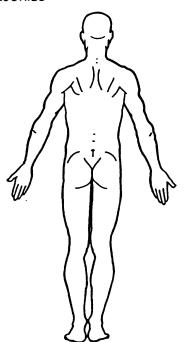
PSU Number 10 Case Number-Stratum 9612 Vehicle Number 91 Occupant Number 04

INJURY DATA FROM INTERVIEWEE(S)

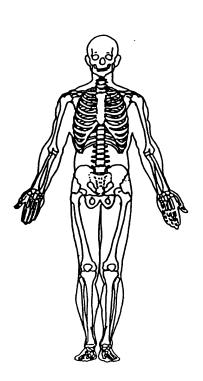
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):

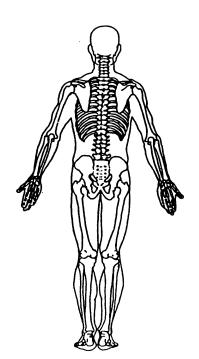
SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES





The space provided on the back of this page may be used to further detail injuries noted by the interviewee(s).

NASS CDS INTERVIEW FORM: VEHICLE #2 DRIVER

Administration

INTERVIEW FORM (A)

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number In	nterviewee(s) Role or Name(s): DRIVER V2
2. Case Number - Stratum 96 12	
3. Vehicle Number O 2	hone number:
Review all available information and interview que acquisition of all pertinent data.	stions prior to conducting interview(s) to ensure the
If the driver was not the person interviewed, was	an appointment made for a follow-up interview?
DRIVER'S DESCRIPT	TION OF ACCIDENT EVENTS
	_
I was on pulled into inte	stopped at ersection and I got I Remember
? Q. Do you recall or	ther impacts
•	•
After 159 collision	Idon't Remember
Any thing	
OCCUPANT'S DESCRIP	PTION OF ACCIDENT EVENTS
SPECIFIC QUESTION	S TO ASK INTERVIEWEE

ACCIDENT DIAGR	AM
	Use this diagram to aid in relating interviewee accident trajectory data (i.e., pre-impact to FRP orientations) to identifiable objects in the environment.
NORTH	

	CRASH DATA INFORMATION			
IF POSSIBLE OBTAIN THIS INFORMATION FROM THE DRIVER:				
SOURCE OF INFORMATION:	Driver [] Other occupant [] Relative/friend			
TRAVEL DIRECTION?	[] North [] South [] East [X] West (Or where were they coming from or going to?)			
LANE?	1 [] 2 [] 3 [] 4 [] Other Note: lane 1 is the right curb lane			
ROAD CONDITION?	[X] Dry [] Wet [] Snow [] Slush [] Ice [] Sand, dirt, oil [] Other (specify)			
WEATHER CONDITIONS? (Check all that apply)	No adverse conditions [] Rain [] Fog [] Sleet [] Hail [] Snow [] Other (specify)			
	[] Traffic control signal (includes flashing beacons, lane control signals, and green / amber / red signal)			
SIGN OR SIGNAL PRESENT?	Stop sign [] Yield sign [] School zone sign			
(check all that apply)	Other regulatory sign (No "U" turn, left turn only, wrong way, etc.) specify:			
	[] Warning sign (Winding road sign, stop ahead, intersection signs, etc.) specify:			
	[] Miscellaneous control (including railroad controls) specify: [] None [] Unknown			
WAS THE CONTROL FUNCTIONING PROPERLY?	 No traffic control device present Not functioning properly (includes defaced, badly worn, covered with snow, rotated etc.) specify: Functioning properly Unknown 			
SPEED BEFORE THE IMPACT? (in mph)	[] Stopped [] 11-20 [] 31-40 [] 51-60 [] 70+ [1-10 [] 21-30 [] 41-50 [] 61-70 [] Unknown			
BEFORE IMPACT, INTENDING TO ? (check all that apply)	Go straight [] Stopped [] Turn left [] Turn right [] Slow down [] Accelerate [] Back up [] Change lanes to right [] Other (specify): [] Change lanes to left			
CONTROL LOSS DUE TO WEATHER OR MECHANICAL PROBLEMS?	[] No			
AVOIDANCE ACTIONS?	None None			
LOCATION OF VEHICLE AT TIME OF IMPACT?	Original travel lane [] Different travel lane [] In intersection [] Off roadway to left [] Other (specify):			
SPEED AT THE TIME OF IMPACT? (in mph)	[Stopped			
DESCRIBE ALL THE IMPACTS to the vehicle and how this vehicle moved to its stopped position, after the collision?	Don't Remember Anything After 1st impact.			

VEHICLE INFORMATION					
ROLLOVER DATA					
DID THIS VEHICLE ROLL OVER DURING THE CRASH?					
[] YES - · ASK THE FOLLOWING QUESTIONS [] UNKNOWN - · SKIP TO "FIRE DATA" BELOW					
ROLLOVER BEGAN	[] On roadway [] On shoulder [] On roadside or median [] Unknown				
ROLLOVER CAUSE?	[] Other vehicle (specify vehicle number) [] Contact to object (specify): [] Other cause (specify): [] Unknown				
DIRECTION OF VEHICLE ROLL?	[] Toward the right (passenger side) [] Toward the left (driver side) [] End-over-end [] Unknown				
NUMBER OF TURNS	Number of QUARTER TURNS [] Unknown Number of COMPLETE TURNS				
PLANE IN CONTACT WITH GROUND AT FINAL REST?	[] Left side [] Top [] Right side [] Wheels [] Unknown				
	CIDE DATA				
	FIRE DATA				
DID THIS VEHICLE EXPERIENCE A	· · · · · · ·				
[] YES ASK THE FOLLOWING QU	(X) NO SKIP THIS SECTION UESTIONS UNKNOWN SKIP THIS SECTION				
FIRE STARTED, OR SMOKE WAS FIRST SEEN	[] Under the hood [] In the trunk/cargo area [] Behind the instrument panel [] Under the vehicle [] In the passenger compartment [] From other involved vehicle [] Unknown				
FIRE START WITH THE ELECTRICAL SYSTEM? [] No [] Unknown	[] Yes (specify):				
FIRE START WITH THE FUEL SYSTEM?	[] Yes specify Which part of the fuel system may have been involved? [] Fuel tank [] Fuel lines [] Engine compartment (specify component if known)				
Describe any additional rollover or fire information here:					

ADDITIONAL VEHICLE INFORMATION			
YEAR, MAKE AND MODEL?	Year: 19 <u>8</u> <u>6</u> Make: <u>Cherrolet</u> . Model: <u>Celebrity</u>		
PREVIOUS OR POST-CRASH DAMAGE?	No [] Yes - describe: [] Unknown		
DOORS OR HATCH OPEN DURING THE CRASH?	No		
WINDOWS BREAK DURING THE CRASH?	[] No Check all that apply [] Yes [] WS [] LF [] RF [] LR [] RR [] BL [] Roof [] Other		
WINDOW PRECRASH STATUS	[] Unknown All CloseD per driver [] WS [] LF [] RF [] LR [] RR [] BL [] Roof [] Other "O" = open "C" = Closed "P" = partially open "U" = Unknown		
GLOVE COMPARTMENT DOOR OPEN DURING THE CRASH?	[] Vnknown		
CARGO IN THE VEHICLE?	[] Unknown [] Yes - describe: NORMAL Stuff In trunk Approximate weight pounds		
VEHICLE MILEAGE	miles		
F VEHICLE HAS NOT BEEN INSPECTED	Current location of the vehicle: Contact person:		
Detail any notes, questions to ask in lirections to vehicle location: I don't Remember of the property of the	nterviewee (i.e., rescue personnel damage to vehicle) or Anything until Emergency People out of CAR.		

SPECIAL CRASH IN	VESTIGATION ADDENDUM: DRIVER INFORMATION
Do you recall the type of development in the area of the crash?	Residential [] Commercial [] Industrial [] Agricultural [] Undeveloped [] School [] Other:
What were the weather conditions at the time of the crash?	Clear (no clouds, no precipitation) [] Cloudy (partially cloudy, no precipitation) [] Overcast (full cloud cover, no precipitation) [] Precipitating [] Unknown
What was the type of precipitation?	No precipitation [] Unknown [] Raining [] Freezing rain [] Sleeting [] Snowing [] Hailing
What was the condition of the road surface?	Dry [] Wet [] Snowy, slushy [] Icy [] Other (e.g., sand, dirt, oil on surface, etc.) [] Unknown
How would you describe the amount of traffic at the time of the crash?	[] Heavy [] Moderate [] No other traffic present
What is your occupation?	[] Professional [] Technical [] Government official [] Management [] Proprietors [] Sales [] Clerical [] Craftsman and foreman [] Service worker [] Student [] Farmers and farm-managers [] Farm labors and foreman [] Private household worker [] Housewife [] Other: RETIRED.
How long have you driven this vehicle?	Years: 4-5 Months:
How many miles do you think that you have driven it in the last 12-month period?	Miles: <u>5000</u>
How often do you drive this particular roadway?	Daily [] Twice weekly [] Once weekly [] Twice monthly [] Once monthly [] Very infrequently [] First time on road
Where were you coming from just prior to the crash?	[] Home [] Work [] School [] Shopping [] Social/recreational [] Restaurant [X] Personal business [] Other:
Where were you intending to go when the crash occurred?	[] Home [] Work [] School [] Shopping [] Social/recreational [] Restaurant [] Personal business [] Other: $\rho_0 + \rho_1 + \rho_2$

OCCUPANT DATA QUESTIONS						
HOW MANY PEOPLE WERE IN THE VEHICLE AT THE TIME OF THE CRASH?						
	DRIVER	OCCUPANT #	OCCUPANT #			
SEATING POSITION? Front Left (FL) Second Left (2L) Front Middle (FM) Second Middle (2M) Front Right (FR) Second Right (2R) Third Left (3L) Other (SPECIFY in block) Third Middle (3M) Third Right (3R)	FRONT LEFT		·			
SEX, HEIGHT, WEIGHT, AND AGE? CIRCLE DRIVER'S RACE: White Black American Indian 78.0 Eskimo or Aleut Asian or Pacific Islander Other (specify):	WEIGHT: AGE: DRIVER OF HISPANIC ORIGIN?	[] M [] F - Not pregnant [] F - Pregnant - # of months [] F - Unk. if pregnant HEIGHT: WEIGHT: AGE:	[] M [] F - Not pregnant [] F - Pregnant - # of months [] F - Unk. if pregnant HEIGHT: WEIGHT: AGE:			
Unknown OCCUPANT POSTURE	[] Y [X N [] U	[] Leaning to left	[] Leaning to left			
A) Kneeling or standing on seat B) Lying on or across seat C) Kneeling, standing or sitting in front of seat D) Sitting sideways, turned to side or back E) Sitting on console F) Lying back in reclined position G) Other (specify) H Unknown	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above	Earling to left Leaning to right Sitting upright Unknown Indicate all letters that apply and describe if other than above	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above			
FEET AND HANDS/ARMS LOCATION JUST PRIOR TO IMPACT	Indicate all lètters that apply and further describe as needed	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed			
FEET A) On floor or foot controls B) One or both on dash C) One or both on seat D) Other (specify) E) Unknown HANDS / ARMS	A					
F) Both hands on steering wheel G) One on wheel, other hand resting or adjusting a control (specify hand on wheel and control involved) H) Dialing a cellular phone (specify location and type of phone) I) Holding a cellular phone (specify location and type of phone) J) Bracing with one or both hands K) On lap L) One or both out of window (specify) M) Other (specify) N) Unknown	DATA CONTINUED ON					

•	OCCUPANT DATA	QUESTIONS (continued)				
	DRIVER	OCCUPANT #	OCCUPANT #			
BACK UP AGAINST THE SEAT BACK?	[] No (describe) Yes [] Unknown	[] No (describe) [] Yes [] Unknown	[] No (describe) [] Yes [] Unknown			
ADJUSTABLE SEAT TRACK, IF "YES" WHERE WAS THE TRACK PRIOR TO IMPACT?	Not adjustable Seat all the way forward Between forward and middle At middle position Between middle and rear position Seat all the way rearward Unknown	Not adjustable Seat all the way forward Between forward and middle At middle position Between middle and rear position Seat all the way rearward Unknown	Not adjustable Seat all the way forward Between forward and middle At middle position Between middle and rear position Seat all the way rearward Unknown			
ADJUSTABLE SEAT BACK, IF "YES" WHERE WAS THE BACK PRE AND POST IMPACT	PRE POST Not adjustable Completely upright Slightly reclined Slightly forward of upright Completely forward Unknown	PRE POST [] [] Not adjustable [] [] Completely upright [] [] Slightly reclined [] [] Completely reclined [] Slightly forward of	PRE POST [] [] Not adjustable [] [] Completely upright [] [] Slightly reclined [] Completely reclined [] Slightly forward of upright [] Completely forward [] Unknown			
TILT STEERING COLUMN ADJUSTMENT PRIOR TO IMPACT Not adjustable Full up Between full up and center Between center and full down Unknown						
TELESCOPING STEERING COLUMN PRIOR TO IMPACT Not adjustable [] Full back [] Between full back and midpoint [] Between midpoint and full forward [] Full forward [] Unknown						
Did this vehicle have a cellular phone in it during the crash? No Yes - describe type: (e.g., portable, mounted in vehicle, flip phone, etc.) Unknown (Note to researcher: try to determine any driver distractions without implying fault)						
Was the driver doing any of the following? (check all that apply - and specify) [] Talking to or listening to another occupant (specify): [] Was there a moving object in vehicle (specify): [] Talking or listening on a cellular phone (specify): [] Dialing a cellular phone (specify): [] Adjusting climate control (specify): [] Adjusting radio, CD or cassette player (specify): [] Using other device or object in vehicle (specify): [] Sleepy / asleep (specify): [] Distracted by outside person, object, or event (specify): [] Eating or drinking (specify): [] Smoking related (specify): [] Other (specify): [] Unknown						

RESTRAINT INFORMATION				
	DRIVER	OCCUPANT #	OCCUPANT #	
TYPE OF SEAT BELT AVAILABLE NOTE: If a belt is not available for a seat position describe reason	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available *	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available *	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available * * Describe:	
DO BELTS MOVE ALONG A MOTORIZED TRACK FOR THIS SEAT? (i.e.), 2- point automatic belt)	[] Unknown [刈 No [] Yes *	[] Unknown [] No [] Yes *	[] Unknown [] No [] Yes *	
ETYES!, WERE THEY WORKING PROPERLY?	[] Yes [] No (describe)	[] Yes [] No (describe)	[] Yes [] No (describe)	
ARE ANY BELTS ATTACHED TO THE DOOR? (i.e., 3 - point automatic belt)	[] Unknown [<u>X</u>] No [] Yes *	[] Unknown [] No [] Yes *	[] Unknown [] No [] Yes *	
♣ #FTYES", DOES IT CROSS:	Chest Lap Both	Chest Lap Both	Chest Lap Both	
OCCUPANT WEARING ANY SEATBELT?	No Yes Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown	
SKIP THE FOLLOWING IF NO SEAT BELT WAS WORN				
TYPE OF BELT WORN?	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown	
LAP BELT SITUATED?	[] Low on lap [] Across stomach [] Other (specify):	[] Low on lap [] Across stomach [] Other (specify):	[] Low on lap [] Across stomach [] Other (specify):	
SHOULDER BELT SITUATED?	[] Unknown [] Over shoulder [] Under the arm [] Behind back [] Behind seat [] Other (specify):	[] Unknown [] Over shoulder [] Under the arm [] Behind back [] Behind seat [] Other (specify):	[] Unknown [] Over shoulder [] Under the arm [] Behind back [] Behind seat [] Other (specify):	
Describe any breaks, tears, or failures to a	any of the seat belts:			

	DRIVER	OCCUPANT #	OCCUPANT #
ANY PART OF BODY THROWN OUTSIDE THE VEHICLE DURING THE CRASH?	No Yes ' Unknown If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	[] No [] Yes * [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	[] No [] Yes * [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.
NYONE PINNED IN HE VEHICLE?	No Yes physically pinned jammed doors fire, etc. Unknown Detail any entrapment	[] No [] Yes physically pinned jammed doors fire, etc. [] Unknown Detail any entrapment	[] No [] Yes physically pinned jammed doors fire, etc. [] Unknown Detail any entrapment
OW DID CCUPANT(S) EXIT HE VEHICLE?	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown

	AIR BAG INFOR	MATION		
WAS THIS VEHICLE EVER EQU	WAS THIS VEHICLE EVER EQUIPPED WITH AN AIR BAG?			
[] YES (IF "YES" COM	PLETE THIS SECTION (IF "NO" OR	I) "UNKNOWN" SKIP T	HIS SECTION)	
	DRIVER SIDE FRONTAL	PASSENGER SIDE FRONTAL OCCUPANT #	"OTHER" AIR BAG SPECIFY: OCCUPANT #	
VEHICLE BEEN IN ANY PREVIOUS CRASHES? [] NO [] YES - continue to right [] UNKNOWN - go to box below	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	
TYPE OF AIR BAG?	[] Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown	
PRIOR SERVICE ON THE AIR BAG SYSTEM?	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:	[] No []Unknown [] Yes - Specify:	
DID AIR BAG INFLATE DURING THIS CRASH?	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	
WAS THIS PERSON WEARING ANY TYPE OF EYE-WEAR (EYE/ SUNGLASSES OR CONTACT LENSES) ANY JEWELRY, OR HAVE ANY OBJECTS IN MOUTH OR HAND?	{ No	[] No [] Unknown [] Yes - Specify:	[No	
WAS THE AIR BAG IN THIS POSITION CONTACTED BY ANOTHER OCCUPANT?	[No Unknown Yes - Specify:	[] No [] Unknown [] Yes - Specify:	[] No	

	CHILD SAFETY SEAT INFORMATION			
WAS THERE A PERSON IN A CHILD SAFETY SEAT IN THIS VEHICLE?				
[] YES (IF "'	YES" COM	PLETE THIS SECTION)		
[X] NO[] UNK	NOWN (I	F "NO" OR "UNKNOWN" SKI	P THIS SECTION)	
	DRIVER	OCCUPANT #	OCCUPANT #	
MAKE AND MODEL OF THE SAFETY SEAT?				
TYPE OF SEAT?		[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:	[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:	
DIRECTION FACING PRIOR TO THE CRASH?		[] Front [] Rearward [] Unknown	[] Front [] Rearward [] Unknown	
VEHICLE'S SEAT BELT USED TO HOLD THE SEAT IN PLACE?		[] No [] Yes [] Unknown	[] No [] Yes [] Unknown	
HOW WAS THE VEHICLE'S SEAT BELT SECURED TO THE CHILD SEAT?		 Looped through designated rear framing studs Looped through arm rest slots Belt across safety shield Looped through rear frame outside the designated framing struts Other (specify): 	 Looped through designated rear framing studs Looped through arm rest slots Belt across safety shield Looped through rear frame outside the designated framing struts Other (specify): 	
WHAT WAS THE CHILD SEAT EQUIPPED WITH AT TIME OF PURCHASE?		[] Unknown [] Harness [] Shield [] Tether [] Unknown	[] Unknown [] Harness [] Shield [] Tether [] Unknown	
ANY OF THESE ADDED AFTER THEY OWNED THE SAFETY SEAT?		[Harness [] Shield [] Tether [] None [] Unknown	[] Harness [] Shield [] Tether [] None [] Unknown	
Describe any additional information here:				

	INJURY INFO	RMATION	
	DRIVER	OCCUPANT #	OCCUPANT #
WERE YOU INJURED? ► If "YES" go to manikin page and record injuries in detail ► If "NO" ask next questions	[] No X Yes [] Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown
DID YOU HAVE ANY OF THE FOLLOWING: (If any injuries are checked, go to the manikin page and record location, lesion, and source)	Cuts Abrasions Bruises Broken bones Head, skull, brain Internal injury Sprains, strains Other - specify on manikin	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other - specify on manikin	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other - specify on manikin
TRANSPORTED DIRECTLY FROM ACCIDENT SCENE FOR TREATMENT?	No Yes Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown
RECEIVE ANY MEDICAL TREATMENT? (check all that apply)	Hospital Hospital Paramedics at scene Doctor's office Treated by self Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown
HOSPITALIZED?	No Yes - # of days Unknown	[] No [] Yes - # of days [] Unknown	[] No [] Yes - # of days
TREATED AND RELEASED FROM THE EMERGENCY ROOM?	[] No Yes [] Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown
NAME OF MEDICAL TREATMENT FACILITY?			
RECEIVE ANY FOLLOW-UP TREATMENT?	No Yes - describe any additional injuries diagnosed:	[] No [] Yes - describe any additional injuries diagnosed:	[] No · [] Yes - describe any additional injuries diagnosed:
	[] Unknown	[] Unknown	[] Unknown
LOST ANY DAYS FROM WORK OR SCHOOL (COLLEGE) DUE TO THE CRASH?	Not working prior to crash Yes - # of days Unknown	[] No [] Not working prior to crash [] Yes - # of days	No Not working prior to crash Yes - # of days Unknown
IF REQUIRED:			[] No
WILL YOU SIGN A MEDICAL RELEASE?	Unknown		[] Yes* [] Unknown
* If not an in-person interview, make appointment to have release signed			TIME:
oignou	PLACE:	PLACE:	PLACE:

National Accident Sampling System-Crashworthiness Data System: Interview Form PSU Number / O Case Number – Stratum 9612 Vehicle Number 02 Occupant Number O **INJURY DATA FROM INTERVIEWEE(S)** Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):_ ISSUE/INTERNAL INJURIES FORENTAL CUT WS9/ASS **SKELETAL INJURIES**

The space provided on the back of this page may be used to further detail injuries noted by the interviewee(s).

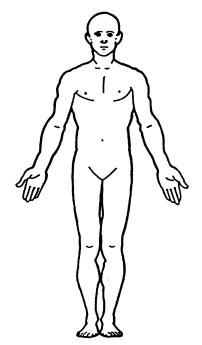
PSU Number $\angle 0$ Case Number-Stratum 96

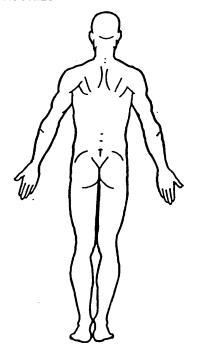
Vehicle Number ___ Occupant Number

INJURY DATA FROM INTERVIEWEE(S)

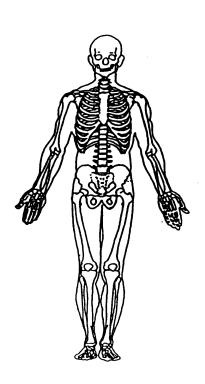
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):

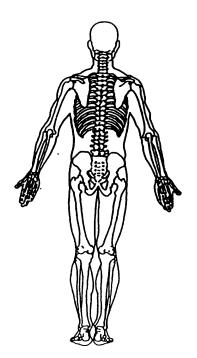
SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES





The space provided on the back of this page may be used to further detail injuries noted by the interviewee(s).

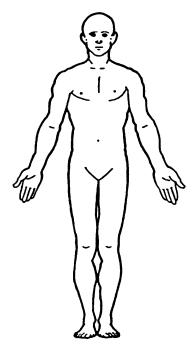
PSU Number / O Case Number - Stratum 96

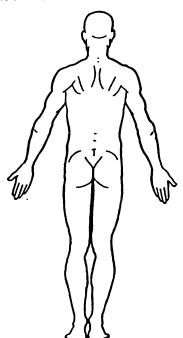
Vehicle Number ___ Occupant Number ___

INJURY DATA FROM INTERVIEWEE(S)

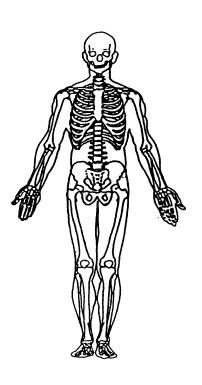
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):_____

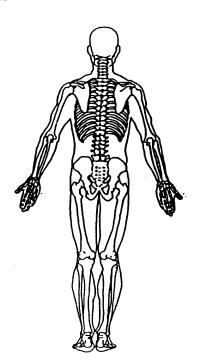
SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES





The space provided on the back of this page may be used to further detail injuries noted by the interviewee(s).

NASS CDS OCCUPANT ASSESSMENT FORM: CASE VEHICLE DRIVER



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM

Administration	CRASHWORTHINESS DATA SYSTE
1. Primary Sampling Unit Number / C	OCCUPANT'S SEATING
2. Case Number - Stratum 96/6	10. Occupant's Seat Position Front Seat
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify):
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 6 6 inches X 2.54 = 167 centimeters	(45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown 150 pounds X .4536 = 68 kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify):
	(9) Unknown

EJECTION/ENTRAPMENT			
	Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	0	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13.	Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	<u>O</u>	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place
14.	Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	0	(2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown

BELT SYSTEM FUNCTION			
(0) None availa (1) Belt remove (2) Shoulder be (3) Lap belt (4) Lap and she (5) Belt availab Integral Belt Part (6) Shoulder be	ed/destroyed elt pulder belt le—type unknown ially Destroyed elt (lap belt destroyed/removed) poulder belt destroyed/removed)	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment	4
19. Manual (Active) (OO) None used, removed/de (O1) Inoperative (O2) Shoulder be (O3) Lap belt (O4) Lap and sho (O5) Belt used— (O8) Other belt used (12) Shoulder be (13) Lap belt used (14) Lap and sho safety seat (15) Belt used w	not available, or belt estroyed (specify): elt pulder belt type unknown used (specify): elt used with child safety seat ed with child safety seat bulder belt used with child ith child safety seat — type unknown	23. Automatic (Passive) Belt System Availability/ Function (O) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (O) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown	<u>a</u>
(18) Other belt uspecify: (99) Unknown if 20. Proper Use of Ma (0) None used or (1) Belt used pro (2) Belt used pro (3) Shoulder belt (4) Shoulder belt (5) Belt worn aro (6) Lap belt worn (7) Lap belt or lay improperly with	belt used nual (Active) Belts not available perly perly with child safety seat erly worn under arm worn behind back or seat und more than one person	(9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen	d d
 (1) No manual be (2) Torn webbing included) (3) Broken buckle (4) Upper anchora (5) Other anchora (6) Broken retract (7) Combination of 	It used or not available It failure(s) (stretched webbing not or latchplate age separated age separated (specify):	automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):	Q

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
 (9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown" 	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. Vehicle inspection Official injury data Driver/occupant interview Other (specify): Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" sir bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION		
	Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown	
	Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed	
38. 4	Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available	 (9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged?	
(Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn	
() () () () ()	CDC For Air Bag Deployment Impact O) Not equipped/not available 1) Highest delta V 2) Second highest delta V 3) Other non-coded delta V (specify): 6) Deployed, unknown event 7) Not deployed 8) Unknown if deployed 9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):
(07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown	(07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat
46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown	(1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown 52. Seat Track Adjusted Position Prior To Impact
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	(0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
48. Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	* per driver, inspection showed in full reprupied position which is unlikely due to driver Height.

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

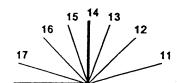
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

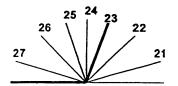
Slightly reclined prior to impact

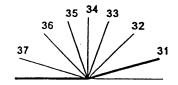
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







	CHILD SA	FETY SEAT
55.	Child Safety Seat Make/Model OOO) No child safety seat	58. Child Safety Seat Harness Usage \bigcirc \bigcirc
	Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):	59. Child Safety Seat Shield Usage O
	(998) Unknown make/model	60. Child Safety Seat Tether Usage
	(1999) Unknown if child safety seat used Type of Child Safety Seat (1) No child safety seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (13) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight (21) Rear facing (22) Forward facing (23) Other orientation (specify): (29) Unknown orientation (99) Unknown orientation	Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat **Mot Designed With Harness/Shield/Tether* (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used **Designed With Harness/Shield/Tether* (11) Harness/shield/tether not used (12) Harness/shield/tether used (13) Unknown if harness/shield/tether used **Unknown If Designed With Harness/Shield/Tether* (21) Harness/shield/tether used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used

· age
63. Type Of Medical Facility (for Initial Treatment) 4 (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office
(5) Treatment later at medical facility (8) Other (specify): (9) Unknown
64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more
(99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
ORK HERE

VARIABLES 66-74

TO BE CODED BY THE ZONE CENTER

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA
	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) - HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
disease) (specify): (99) Unknown	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

NASS CDS OCCUPANT ASSESSMENT FORM: CASE VEHICLE FRONT RIGHT PASSENGER

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

/ ^	OCCUPANT'S SEATING
1. Primary Sampling Unit Number 70	12
2. Case Number - Stratum 9612	10. Occupant's Seat Position Front Seat
3. Vehicle Number	(11) Left side
<u> </u>	(12) Middle (13) Right side
4. Occupant Number O d	(14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat
2	(31) Left side
6. Occupant's Sex	(32) Middle
(1) Male (2) Female-not reported pregnant	(33) Right side (34) Other (specify):
(3) Female-pregnant-1st trimester(1st-3rd month)	(35) On or in the lap of another occupant
(4) Female-pregnant-2nd trimester(4th-6th month)	·
(5) Female-pregnant-3rd trimester(7th-9th month)	Fourth Seat
(6) Female-pregnant-term unknown	(41) Left side (42) Middle
(9) Unknown	(43) Right side
	(44) Other (specify):
100	(45) On or in the lap of another occupant
7. Occupant's Height	(97) In or on unenclosed area
Code actual height to the nearest centimeter.	(98) Other seat (specify):
(999) Unknown Medical Examiner	(99) Unknown
$\frac{2}{3}$ inches X 2.54 = $\frac{109}{2}$ centimeters	
8. Occupant's Weight Code actual weight to the nearest	11. Occupant's Posture (0) Normal posture
kilogram.	Abnormal posture
(999) Unknown Medical Examiner	(1) Kneeling or standing on seat
	(2) Lying on or across seat(3) Kneeling, standing or sitting in front of seat(4) Sitting sideways or turned to talk with
9. Occupant's Role	another occupant or to look out a rear
(1) Driver	window (5) Sitting on a console
(2) Passenger (9) Unknown	(6) Lying back in a reclined seat position
(3) Olikilowii	(7) Bracing with feet or hands on a surface in
	front of seat (8) Other abnormal posture (specify):
	•
	(9) Unknown

EJEC1	TION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	Ó	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):	0	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons
(4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown		(specify): (9) Unknown

BELT SYSTE	M FUNCTION
18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
(9) Unknown 19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown	23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown
(08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available
20. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat **Belt Used Improperly** (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	(1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21. Manual (Active) Belt Failure Modes During Accident (O) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. Vehicle inspection Official injury data Driver/occupant interview Other (specify): Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present: 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AIF	R BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	(9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? 2 (0) Not equipped/not available (1) No (2) Yes (specify): 316Htly Bent (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):
(06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify):	(9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat
(95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown 45. Was The Air Bag Tethered?	(01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported)
(0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): 2 WIDE ONES (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown	(08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat
46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present	(2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):
(7) Not deployed (8) Unknown if deployed (9) Unknown	52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed	Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position
(8) Unknown if deployed (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	tper nother Idriver, veh inspection showed it was in full rearward position may have been moved by paramedics

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

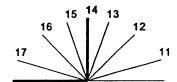
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

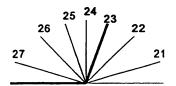
Slightly reclined prior to impact

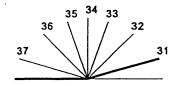
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







	CHILD SA	AFETY SEAT
55.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat	58. Child Safety Seat Harness Usage 59. Child Safety Seat Shield Usage
	(997) Other make/model (specify):	60. Child Safety Seat Tether Usage
56.	(998) Unknown make/model (999) Unknown if child safety seat used Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used	Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether
57.	Child Safety Seat Orientation (00) No child safety seat	(11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used
	Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify):	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used
	(09) Unknown orientation	(99) Unknown if child safety seat used
	Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used	

National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form	Page 9							
INJURY CONSEQUENCES 61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Triansported and released (5) Treatment at scene - nontransported (6) Treatment at scene - nontransported (6) Treatment - other (specify): (8) Treatment at scene - nontransported (6) Treatment dater (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown 61. Injury Severity (Police Rating) (O) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 62. Treatment at stage (specify): (9) Unknown 63. Type Of Medical Facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown	1							
STOP WORK HERE VARIABLES 66-74								
TO BE CODED BY THE ZONE CENTER								

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled	73. Arterial Blood Gases (ABG) – HCO ₃ / (O0) Not injured (O1) Injured, ABGs not measured or reported (O2-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
disease) (specify):	BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant // Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

NASS CDS OCCUPANT INJURY FORM: CASE VEHICLE FRONT RIGHT PASSENGER

U.S. Department of Transportation National Highway Traffic Safety Administration

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

0

3. Vehicle Number

2. Case Number - Stratum

4. Occupant Number

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	A.I.S 90							_		Injury		Occupant
		-	ry Body	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
Athai		Data				• •				· · · · · · · · · · · · · · · · · · ·	 -	
Occipita Disloc	/1st _		66	7. 5	8. <u>0</u> <u>2</u>	9. <u>O B</u>	10. 2	11. 6 12.	180	13. /	14. 🖊	15. <u>0 0</u>
Concuss		16. <u>2</u>	17. 1	18. <u>6</u>	19. 08	20. 2 4	21. 5	22. <u>0</u> 23.	<u> </u>) _{.24} /	_{25.} <u>2</u>	26. <u>O</u> O
Cerebe e de ma	1/3rd	27. <u>3</u>	28. /	29. <u>4</u>	30. <u>0 4</u>	31. <u>54</u>	32. <u>Z</u>	33. <u>b</u> 34.	180	35	36. 2	37
Core be		38. <u>3</u>	39. 🖊	40. <u>4</u>	41. 06	42. <u>6</u> 8	43. <u>5</u>	44. <u>J</u> 45.	180	46	47. <u>2</u>	48. <u>O</u> <u>O</u>
Introve	110	49.3	50. /	51. <u>4</u>	52. <u>0 6</u>	53. <u>78</u>	54. 4	55. 🔰 56.	180) _{57.} <u>/</u>	58. 2	59. <u>O</u> O
Sum rach hemorry	reind	60. 3	61/	62. 🚣	63. <u>О </u>	64. <u>84</u>	65. <u>3</u>	66. <u>6</u> 67.	180	68	69. <u>2</u>	70. <u>O</u> <u>D</u>
Contusion occipite scalp	7th	71. <u>2</u>	72/	73. <u>9</u>	74. <u>0</u> 4	75. <u>O</u> <u>2</u>	76/	77. <u>6</u> 78.	104	79. 2	80. /	81. <u>00</u>
Alorosio	/1 8th	82. 👱	83. 2	84. 9	85. <u>0.2</u>	86. 🖸 귍	87. /	88. / 89.	185	90. 2	91	92. 💆 🔿
Abrosion whole onterior	1 9th	93. 2	94. 3	95. <u>Ĵ</u>	96. <u>0</u> 2	97. 02	98/	99. <u>Ø</u> 100.	180	0 ₁₀₁ /	102/ 10	03. 🖸 🖸
intusion osterior	-^\ 10th	104 2	105.3	106. 9	107. 04	108. <u>D</u> <u>2</u>	109/	110. 6 111.	104	112. 2	113. 1	14. 🙆 🧿

	·			OCC	UPANT	NJURY	DATA				•
	Source of Injury	Body	Type of Anatomic	A.I.S 90 Specific Anatomic	Level of	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level		Occupant Area Intrusion
ļ	Data	Region	Structure	Structure	Injury	Severity	Aspect	Source	Level	Injury	Number
11th			 .							_	
12th											
13th											
14th											
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19th											
20th		_	_	-		<u> </u>				-	
21st		_	_								
22nd									_	_	
23rd			******								
24th											
25th											

(02) Length of LOC

(08) Consciousness

(10) Concussion

(02) Cervical (04) Thoracic (06) Lumbar

(04) Level

(06) of

Spine

OCCUPANT INJURY CLASSIFICATION Body Region Specific Anatomic Level of Injury **Aspect** Structure Specific injuries are Right (1)(1) Head (2) Face assigned consecutive (2)Left (3) Neck Vessels, Nerves, Organs. two-digit numbers (3) Bilateral Bones, Joints are assigned beginning with 02. (4) (4) Thorax Central Anterior (5) (5) Abdomen consecutive two digit Spine (6) (6) numbers beginning with To the extent possible, Posterior (7) **Upper Extremity** 02. within the organizational (7)Superior (8) (8) Lower Extremity framework of the AIS, 00 Inferior is assigned to an injury (9) Unspecified The exceptions to this rule Unknown (9) apply to: NFS as to severity or (O) Whole region where only one injury is Type of Anatomic Whole Area given in the dictionary for (02) Skin - Abrasion (04) Skin - Contusion that anatomic structure. Structure 99 is assigned to any injury NFS as to lesion or (1) Whole Area (06) Skin - Laceration (08) Skin - Avulsion (2) Vessels severity. (10) Amputation (3) **Nerves** (4) Organs (includes (20) Burn **Abbreviated Injury Scale** Muscles/ligaments) (30) Crush (5) (40) Degloving Skeletal (includes (1)Minor Injury (50) Injury - NFS joints) (2) Moderate Injury (6)Head - LOC (90) Trauma, other than (3) Serious Injury Severe Injury (9) mechanical Skin (4) (5) Critical Injury Head - LOC (6) Maximum

(7)

(untreatable)

severity

Injured, unknown

SOURCE OF INJURY DATA	INJURY SOURCE	DIRECT/INDIRECT INJURY
4	CONFIDENCE LEVEL	
OFFICIAL RECORDS (1) Autopsy records with or without hospital/medical records (2) Hospital/medical records other than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel	(1) Certain (2) Probable (3) Possible (9) Unknown	(1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source
(7) Interviewee (8) Other source (specify):		
(9) Police		

Hyperdense lesions within soft hesus

hematoma (EXY

posterior neck

and skull (ME

- Contusions

Air Gog Restrained?

___ Yes

Blood Alcohol Level

(ME)

Glasgow Coma Scale Score

gcss = 3(NN)

Units of Blood Given

Units =

Arterial Blood Gases

pH = __.__

PO₂ =

PCO, ____

HCO,

Not wearing a scatbelt at the time

weight: 45 /bs (ME, NA)
Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are

unavailable.) Depression of skull (ME) INO (ME, EN) · Marked edema

of hood/face (ME)
. Abrosion Bjow
(ME) Abrasion (8) BAL = Tested side of neck (ME)

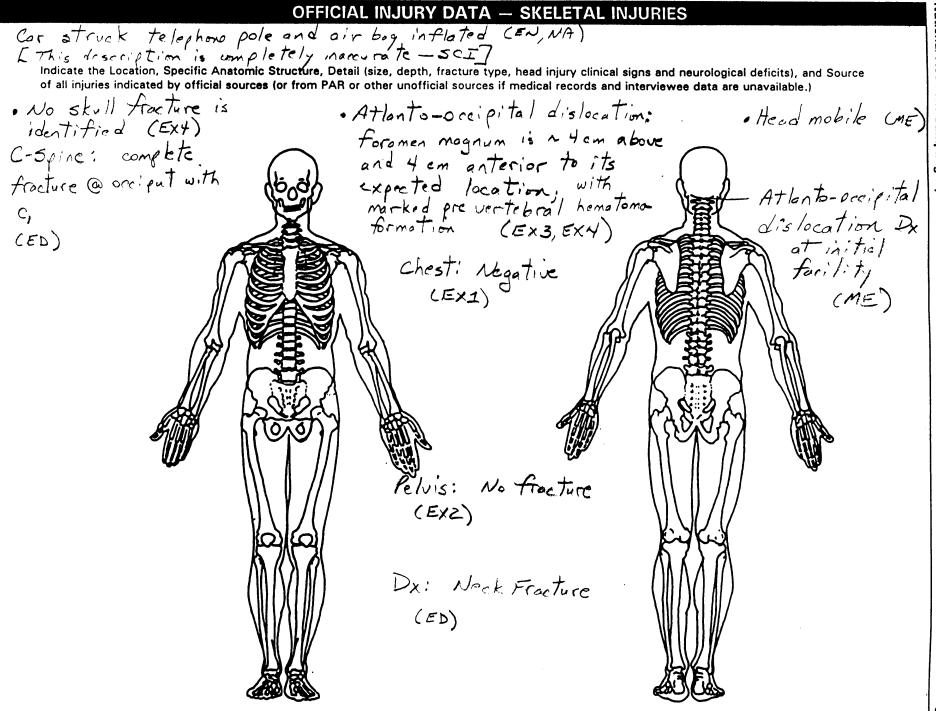
- Abrasia Dside of neck (ME)

· Extremities without lesions polvis stable, no rectal bleeding, no

tone (EN)

·Pt transferred to Trauma Center (ED

· Ended up on floor under dash on possenger side (ME, EN, NA)



			INJURY	SUUF	1010		
FRONT	•	(102)	Right side hardware or	(183)	Air bag-passenger side and	(411)	Wall mounted head rest
		(102)	armrest	,,,,,,,,	object held		(used behind wheel chair)
	Windshield Mirror	(103)	Right A (A1/A2)-pillar	(184)	Air bag-passenger side and	(412)	Other adaptive device
			Right B-pillar	(,,,,,	object in mouth		(specify):
	Sunvisor		Other right pillar (specify):	(185)	Air bag compartment		
	Steering wheel rim	(103)	Other right plant (specify).	(1007	cover-passenger side		
	Steering wheel hub/spoke	(106)	Dishe side window slags	(186)	Air bag compartment	EXTE	RIOR of OCCUPANT'S
0061	Steering wheel (combination		Right side window glass	(100)	cover-passenger side and	VEHIC	and the second s
	of codes 004 and 005)		Right side window frame		evemest		Hood
	Steering column,		Right side window sill	/1071	•		Outside hardware (e.g.,
	transmission selector lever,	(109)	Right side window glass	(187)	Air bag compartment	(432)	outside mirror, antenna)
	other attachment		including one or more of the		cover-passenger side and	14521	Other exterior surface or
	Cellular telephone or CB		following: frame, window		jewelry	(455)	
	radio		sill, A (A1/A2)-pillar, B-pillar,	(188)	Air bag compartment		tires (specify):
009)	Add on equipment (e.g.,		or roof side rail.		cover-passenger side and		
	tape deck, air conditioner)	(110)	Other right side object		object held		
010)	Left instrument panel and		(specify):	(189)	Air bag compartment	(454)	Unknown exterior objects
	below				cover-passenger side and		
011)	Center instrument panel and				object in mouth		RIOR OF OTHER MOTOR
	below	INTER	IOR	(190)	Other air bag (specify)	VEHIC	CLE
012)	Right instrument panel and	(151)	Seat, back support			(501)	Front bumper
	below	(152)	Belt restraint webbing/buckle	(195)	Other air bag compartment	(502)	Hood edge
013)	Glove compartment door	(153)	Belt restraint 8-pillar or door		cover (specify)	(503)	Other front of vehicle
014)	Knee bolster		frame attachment point				(specify):
	Windshield including one or	(154)	Other restraint system				
	more of the following: front		component (specify):	ROOF		(504)	Hood
	header, A (A1/A2)-pillar,			(201)	Front header	(505)	Hood ornament
	instrument panel, mirror, or	(155)	Head restraint system		Rear header	(506)	Windshield, roof rail, A-pillar
	steering assembly (driver		Other occupants (specify):		Roof left side rail		Side surface
	side only)	(100)	Cinci Secupation (Specify)		Roof right side rail		Side mirrors
	•	(161)	Interior loose objects		Roof or convertible top		Other side protrusions
	Windshield including one or		•	12001	Thou of convention top	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(specify):
	more of the following: front	(102)	Child safety seat (specify):	FLOOF	•		(Specify)
	header, A (A1/A2)-pillar,	41.00	Osh i-ai ships			(510)	Rear surface
	instrument panel, or mirror	(163)	Other interior object		Floor (including toe pan)		
	(passenger side only)		(specify):	(252)	Floor or console mounted		Undercarriage
017)	Windshield reinforced by				transmission lever, including		Tires and wheels
	exterior object (specify)		_		console	(513)	Other exterior of other motor
		AIR BA	=		Parking brake handle		vehicle (specify):
019)	Other front object (specify):		Air bag-driver side	(254)	Foot controls including		
		(171)	Air bag-driver side and		parking brake	(514)	Unknown exterior of other
			evemest				motor vehicle
eft s	SIDE	(172)	Air bag-driver side and	REAR			
051)	Left side interior surface,		jewelry		Backlight (rear window)		R VEHICLE OR OBJECT IN
	excluding hardware or	(173)	Air bag-driver side and object	(302)	Backlight storage rack,	THE E	NVIRONMENT
	armrests		held		door, etc.	(551)	Ground
(052)	Left side hardware or	(174)	Air bag-driver side and object	(303)	Other rear object (specify):	(598)	Other vehicle or object
	armrest		in mouth				(specify):
053)	Left A (A1/A2)-pillar	(175)	Air bag compartment				
	Left B-piller		cover-driver side	ADAP	TIVE (ASSISTIVE) DRIVING	(599)	Unknown vehicle or object
	Other left pillar (specify):	(176)	Air bag compartment	EQUIP	MENT		
			cover-driver side and	(401)	Hand controls for	NONC	ONTACT INJURY
0561	Left side window glass		eyewear		braking/acceleration	_	Fire in vehicle
	Left side window grass	(1771	Air bag compartment	(402)	Steering control devices		Flying glass
	Left side window sill	,,,	cover-driver side and jewelry	, 4021	(attached to OEM steering		Other noncontact injury
	Left side window sill	(1781	Air bag compartment		wheel)	.0001	source
0031	•	(170)	· · · · · · · · · · · · · · · · · · ·	(403)	Steering knob attached to		(specify):
	including one or more of the		cover-driver side and object	14031		IEDA	
	following: frame, window	(170	held Air has samman and	IANE	Steering wheel		Air bag exhaust gases
	sill, A (A1/A2)-pillar, B-pillar,	(179)	Air bag compartment	(405)	Replacement steering wheel	(097)	Injured, unknown source
	or roof side rail.		cover-driver side and object	(400)	(i.e., reduced diameter)		
(060)	Other left side object		in mouth		Joy stick steering controls		
	(specify):		Air bag-passenger side		Wheelchair tie-downs		
		(181)	Air bag-passenger side and	(408)	Modification to seat belts,		
			eyewear		(specify):		
RIGHT		(182)	Air bag-passenger side and	(409)	Additional or relocated		
(101)	Right side interior surface,		jewelry		switches, (specify):		
	excluding hardware or						

(EN)

OFFICIAL INJURY DATA - INTERNAL INJURIES

No Autopsy (ME)

(EN,NA)

+ non reactive

nitial medical

facility (NA)

· Diffuse edoma

hemispheres and

cerebellum (EXY)

throughout cerebral

promisala

· Pupils fixed (5 mm)

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source

of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.) . Pt in full accest @ some (EN) · Pupils fixed + dilated at transfer hospital, no brain stem function . No BP pulse or spontaneous respirations on arrival a initial facility · Comatose, no reflexes no movement

· Unresponsive on arrival, all 4 extremities were flancid

(NA)

· Suborachnoid hemorrhage fossa + 4th ventricle (EXY)

· Intraventrioular

hemorrhage in

S posterior lateral 9/11 ventricles, no midhie shift (Ex4)

Dx: Probable headinjury (ED)

· Poor differentiation between gray + white matter (EX4)

CAUSE OF DEATH

Transected Spinal Cord (ME)

ICD·9·CM

839.01 Dislocation of first cervical vertebrae 430 Subororhnoid hemorrhage 431 Intracerebral hemorrhage

		OTHER DRUGS (GV16)				
Specin	nen Test Type	Drug(s)	Drug Type			
Blood and urine tests Blood test only Urine test only Other test Unspecified		-				
		Medical Record Abbreviations				
Symbol		Record Type Description				
AR F8 D8 O8 FX FN HP CN ER EN EO CV CR ET	A Autopsy-medical information based upon an invasive examination of a body McMical examiner's record-where the information reported on the patient is based on a non-invasive examination of the body All Admission record/summary—any medical information on this record should be considered as post-ER since it summarizes the patient's admission; these records are common in short hospitalization and usually only contain: admission DX(s), final DX(s), and a listing of surgical treatments; ICD-9-CM codes are frequently available. FE Admission/discharge face sheet-face sheets are essentially the same as admission record/summaries and contain the same types of information as discussed above Discharge summary—shorten history of a patient's hospitalization highlighting the patient's major injuries; this record is often written from the perspective of its author which in many cases is a consultant OB Operative record—summary of a performed surgical operation often providing detailed information about a specific trauma; pa- tients who survive the surgery are normally admitted; thus, this record is normally considered post-ER; however, if this record results from an outpatient surgery, then treat it as emergency-room related FX Radiographic records—taken after the patient has been admitted, or while in surgery or intensive care Patient progress notes—supplemental record containing additional nurses notes taken after the patient's admission HP History and physical exam-medical history and the results of the physical exam sperformed by the emergency room physician; the consultation may occur during the emergency room visit or after admission EX Emergency room report—where the author of this information is undefined Emergency room report—where the author of this information is undefined Emergency room nurse—"nurse/complaint of" section on the emergency room report Emergency room nurse—"nurse/complaint of" section on the emergency room report NN Nurse notes—supplemental record containing additional notes taken by the					
NA	Assessment					

MEDICAL RECORDS FROM INITIAL TREATMENT FACILITY

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NURSING ASSESSMENT EMERGENCY DEPARTMENT

Multicle Science 2 TRIAGE C	CATEGORY	TEMP PULSE RESP BP
TRIAGE/INITIAL ASSESSMENT	HYSICIAN:	2,000
COMPLAINT HX PRESENT CONDITION: (DATE/TIME 1206	- Received angul	WEIGHT:
and ciff in frozen shorland.	m mvA positio	1 NA 45 LBS
pont and faring from in flow	norma. Het a telephine	LAST TETANUS:
Tale allies Inflated see color of	ut.	INA LINGUL DATE
DIABETIC: YES SIGNIFICANT MEDICAL HX: PHIME Prun	ixic	GYN PREGNANT: DENIES
NKA ALLERGIES:	1. 1/2 to 1/1	MA PES UNKNOWN
	He Shut KW Mush).	LMP:BCPBCP
MEDICATIONS NONE NAME DOSAGE/FREQ NAME	DOSAGE/FREO FAMILY MEMBER:	
	FRIEND/CO-WORKER	
	MODE OF ARRIVAL	T WWROTH CHI TY WWROTHE
	W/C CARRIED	STRETCHER POUCE
EMOTIONAL STATE COOPERATIVE ANXIOUS CRYING	HYSTERICAL [_] DEPRESSED	SSMENT NORSE SIGNATURE
UNCOOPERATIVE SMELL OF ETOH HOSTILE COMBATIVE	VE OTHER:	
	IG ASSESSMENT	
	ACK BOARD SAND BAG SPLINTS	مي⊡_
LACERATION/PUNCTURE LOCATION/SIZE/BLEEDING: NOW WOLLD		DISTAL CIRCULATION NO YES
N/A MECHANISM OF INJURY:	TIME OF INJURY: E	DISTAL SENSATION NO YÉS
EENT DURATION:SYMPTOMS: 1	SORE THROAT X DAYS	EARACHE; L R; x DAYS
RESPIRATORY SPONTANEOUS/NORMAL SOB LABORED SHA	NOSE EPISTAXIS:	PAIN:
SPONTANEOUS/NORMAL SOB LABORED SHI	OTHER:	
ORTHOPEDIC LOCATION:	MECHANISM OF INJURY:	
N/A ROM: FULL PAINFUL ABSENT LIMITED DISTAL PULSE: YES NO SWELLING DEFO	SKIN TEMP. DISTAL TO INJUR	Y:
GASTROINTESTINAL NAUSEA VOMITING DIARRHEA CO		DIET FOR AGE: # BOTTLES
NA ABD: SOFT FLAT TENDER OBESE	TAUT DISTENDED INJURIES:	SOUDS
PAIN, LOCATION/CHARACTER/ONSET:	F	FLUID INTAKE:
BOWEL SOUNDS: NORMAL HYPERACTIVE		POOR FAIR GOOD
CARDIOVASCULAR CHEST PAIN: PT'S SEVERITY RATING (1-10):	1 ·	
SOB NAUSEAVOMITING DIAPHOR CARDIAC RHYTHM (monitor)	amera	
	SHED CYANOTIC JAUNDICED HOT	COOL COLD
N/A POOR TURGOR RASH:	Отнея:	
VISUAL ACUITY L: R: (CORRECTIVE LENS)	ERL UNABLE TO ACCESS: PAIN	BLURRING PHOTOSENSITIVE
VRINARY DYSURIA BURNING URGENCY FREQUENCY		APERS USED x 24 HRS.
NA INDWELLING CATHETER:	OTHER	
REPRODUCTIVE DISCHARGE, VAGINAL/PENILE:	PAIN:	
NA BLEEDING PAD/HR. LEDC:		
	S SEVERITY RATING (1-10): HISTORY IAUSEA VOMITING OTHER:	OF SAME:
HEADNEUROLOGICAL A & O DISORIENTED/CONFUSED		ICE UNRESPONSIVE
NA EXTREMITIES: RUE RLE	LLE (S= Strong, W±Weak, F=Flacid, P±Purposeful, NP±Non-Purpo	oseful, DT=Decorricate, DB=Decerebrate)
PUPIL REACTION: RN LN LN LB=Bnsk Si=Sluggis UNABLE TO ASSESS PUPILS:		
CRYING SEIZURE ACTIVITY & MINUTES	R) mm L) mm	

DISCHARGE TIME

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CHART COPY

CCH 00236

EMERGENCY DEPARTMENT PATIENT PROGRESS RECORD / NURSING NOTES ALLERGIES:

PATIENT:		
	,	
PHYSICIAN:		

ALLERGIE	S:						1101011					
EMERGENC	Y ROOM	1: Date:										
Time	B/P		Resp.	Temp.	1&0	Ot	servation/	Remarks	Med	dication & Trea	at.	Int.
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NURSE'S SIGNAT	URE:						• .		DATE:	(. TIME	143)C
CCH 00236			to a second second	A STATE OF THE STA	ter de servez	CHART C	OPY					

NAME: PHYS:

DOB: 192 AGE: 4Y 1M SEX: I

ACCT: LOCATION: ED EXAM DATE: //96 STATUS: ER

RADIOLOGY NO:

UNIT NO:

EXAMS: RAD CHEST SINGLE VIEW FRONTAL

PORTABLE CHEST - AP SUPINE AT 1220 ON ### 96 BACKBOARD ARTIFACT IS PRESENT.

An ET tube is seen terminating 2 cm. above the carina in satisfactory position. The lungs appear clear and well aerated. The heart, vasculature, and mediastinum were unremarkable. There is a moderate amount of gas within the stomach.

IMPRESSION: SATISFACTORY ET TUBE PLACEMENT OTHERWISE NEGATIVE CHEST.

** REPORT SIGNATURE ON FILE /96 **
REPORTED AND SIGNED BY:

CC:

TECHNOLOGIST:

TRANSCRIBED DATE/TIME:

TRANSCRIPTIONIST:

PRINTED DATE/TIME:

/96 (1323)

96 (1331)

BATCH NO:

CHART/MEDICAL RECORDS

NAME: PHYS:

DOB: AGE: 4Y 1M SEX: F

ACCT: LOCATION: ED EXAM DATE: //96 STATUS: ER

RADIOLOGY NO:

UNIT NO:

EXAMS: RAD PELVIS AP

PORTABLE PELVIS
AP SUPINE AT 1220 ON 96.

The film is over exposed. There is backboard artifact. Both hips are normally located. No fracture is seen. There is a moderate amount of bowel gas scattered throughout the abdomen without evidence of mass effect.

IMPRESSION: LIMITED STUDY. NO ABNORMALITY SEEN.

** REPORT SIGNATURE ON FILE /96 **
REPORTED AND SIGNED BY:

CC:

TECHNOLOGIST:
TRANSCRIBED DATE/TIME: \$96 (1325)

TRANSCRIPTIONIST:

PRINTED DATE/TIME: 96 (1331) BATCH NO:

NAME:

PHYS: 792 A

92 AGE: 4Y 1M SEX: F

ACCT: LOCATION: ED EXAM DATE: /96 STATUS: ER

RADIOLOGY NO:

UNIT NO:

EXAMS: RAD SPINE CERVICAL AP & LATERA

CROSS TABLE LATERAL CERVICAL SPINE AT 1220 ON 96.

There is anterior atlanto-occipital dislocation with the foramen magnum located approximately 4 cm. above and 4 cm. anterior to its expected location. The atlas remains associated with C2 and the remainder of the spine appears intact and normally aligned. There is marked prevertebral soft tissue swelling with anterior displacement of an indwelling endotracheal tube.

IMPRESSION: ANTERIOR ATLANTO-OCCIPITAL DISLOCATION WITH MARKED PREVERTEBRAL HEMATOMA FORMATION.

** REPORT SIGNATURE ON FILE //96 **
REPORTED AND SIGNED BY:

CC:

TECHNOLOGIST: -

TRANSCRIBED DATE/TIME: 96 (1359)

TRANSCRIPTIONIST:

PRINTED DATE/TIME: 96 (1359) BATCH NO:

EX3

NAME: PHYS:

DOB: 492 AGE: 4Y 1M SEX: F

ACCT: LOCATION: ED EXAM DATE: 96 STATUS: ER

RADIOLOGY NO:

UNIT NO:

EXAMS: CT HEAD W/O CONTRAST

CT OF THE HEAD - UNENHANCED

Contiguous 8 axial scans were obtained from the foramen magnum to the vertex with 5 mm. collimation. Bone and brain windows were reviewed.

FINDINGS - the scout view demonstrates anterior atlanto-occipital There is approximately 3 cm. of separation from the dislocation. foramen magnum to C1. There is hyperdensity in the subarachnoid spaces of the posterior fossa including the 4th ventricle consistent with subarachnoid hemorrhage. There is diffuse low density throughout the visualized brain including the cerebral hemispheres and cerebellum consistent with diffuse edema. There is very poor differentiation between the gray and the white matter. There is some hyperdense material within the posterior lateral ventricles which probably represents extension of subarachnoid hemorrhage into the ventricular system. The midline is not shifted. Hyperdense lesions are seen within the soft tissues overlying the 'occipital skull bilaterally, larger on the left consistent with occipital There is partial opacification of the left maxillary antrum and the ethmoid air cells. No skull fracture is identified.

IMPRESSION: ANTERIOR ATLANTO-OCCIPITAL DISLOCATION WITH ASSOCIATED GENERALIZED CEREBRAL EDEMA AND SUBARACHNOID HEMORRHAGE AND INTRA VENTRICULAR HEMORRHAGE.

** REPORT SIGNATURE ON FILE \$\frac{1}{2}\fra

CC:

TECHNOLOGIST: TRANSCRIBED DATE/TIME: 96 (1435)

TRANSCRIPTIONIST:

PRINTED DATE/TIME: \$\\\\96 (1541) BATCH NO:

MEDICAL EXAMINER'S REPORT

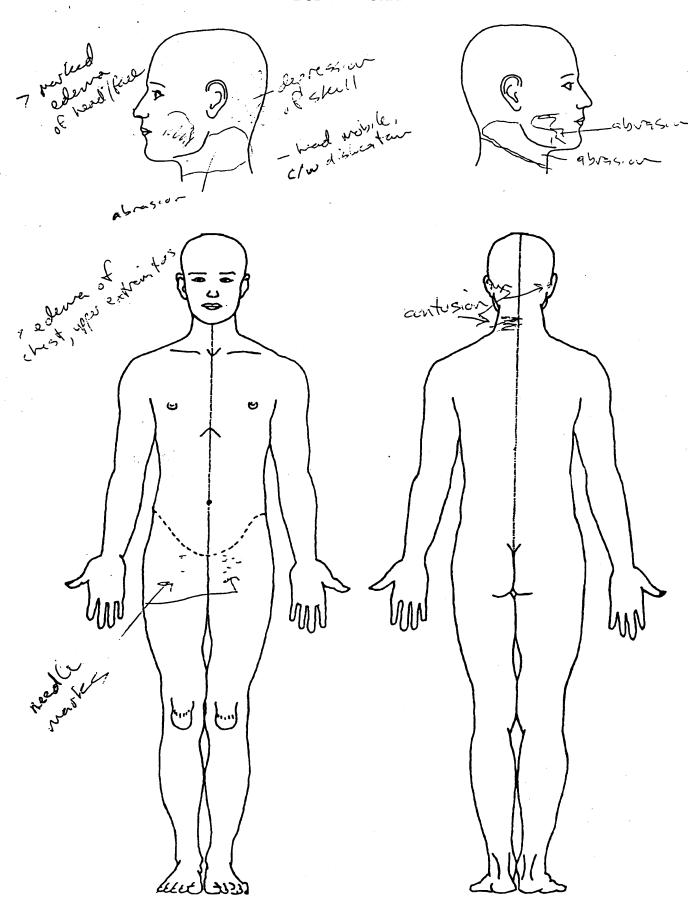
REPORT OF INVESTIGATION BY MEDICAL EXAMINER

OCME USE ONLY	DECEDEN	Т:		· · · · · · · · · · · · · · · · · · ·			
Case number	RESIDENC		Middle Last N C aber and Street City, State	Suffix County			
1996	AGE:	4	SEX: Male SeFemale Unknown				
Date received	RACE:	☐ Black	☐ Native American ☐ Oriental ☐ White ☐	☐ Unknown			
☐ Res ☐ NR	HISPANIC	ORIGIN:	Yes O No O Unknown				
INFORMATION ABOUT OCCURRENCE							
	DATE	TIME	ADDRESS OR FACILITY	COUNTY			
ONSET OF INJURY OR ILLNESS	96	11:4ZA	UZ.				
DEATH	196	1:05 p					
VIEW OF BODY	196	(1:00 A	☐ Scene of death ☐ Hospital ☐ Funeral home ☐ Other ☐ Not viewed				
M.E. NOTIFIED	7196	3:00 p	LAW ENFORCEMENT AGENCY: TELEPHONE:	ce pept			
LAST KNOWN TO BE ALIVE	196		OFFICER: ≤9 [†] TELEPHONE: Question occurred while in custody: □ Yes ② No □ Un	known			
BLOOD SAMPLI	E: 🗆 Maile	d 🛚 Obta	d Non-M.E. Autopsy facility: uned by pathologist Reason not obtained: A Reason Ry whom:	· · · · · · · · · · · · · · · · · · ·			
PROBABLE CAU	JSE OF DEA	TH: 🗆 Pendi	ing OCME REVIEW	SDC			
1. transect	ed sets	oval core	L 1	□ None □ AL			
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DUE TO			DUE TO	,			
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CONTRIBUTING CON	IDITIONS		CONTRIBUTING CONDITIONS	_1			
MANNER OF DE	ATH:		□ Natural □ Accident □ Homicide □ Suicide □ Undeter Reviewer: □ Date: □	minea 96			
□ Natural Acciden	nt 🗆 Homicide	□ Suicide □ P					
I hereby certify that after with Article 16 of Chapt knowledge and belief.	receiving notice of the N.	of the death descri C. General Statut	bed herein I took charge of the body and made inquiries regarding the cause o es and the information contained herein regarding such death is true and corr	f death in accordance ect to the best of my			

DEHNR 1114 (Revised 02/94)

MEDICAL HISTORY

☐ Alcoholism☐ Seizure disorder☐		☐ IV drug abuse ☐ Hypertension	☐ Ischemic heart disease☐ Depression☐ City	☐ HIV/ AIDS	
Otherastl	ima				
VEHICLE:	Passenge: ☐ Bicycle Position: ☐ Driver Devices: ☐ Seat re Number of vehicles	☐ Farm vehicle ☐ Passenger ☐ Pastraints ☐ Air bag involved		Other	
☐ GUN:	Other		Unknow	n	
☐ Other ☐ Unknown ☐ INSTRUMENT: ☐ Blunt ☐ Sharp Description: ☐ TOXIC AGENT(S) SUSPECTED: ☐ Alcohol ☐ Others ☐ DROWNING: ☐ Pond ☐ Lake or river ☐ Ocean ☐ Pool ☐ Bathtub ☐ Other ☐ Life preserver: ☐ Yes ☐ No ☐ Unknown Able to swim: ☐ Yes ☐ No ☐ Unknown Activity					
☐ FIRE: Suspe	cted cause			es No Unknown	
□ FALL: From		to	Approximate o	listance leet	
If yes, was employm	Activity Soccurred on a job: Cent: \[\sigma \text{Primary job} \]	⊒ Yes BYNo □ U	Specific location	5+ V UC	
• •	ndustry		Decedent's occupation		
DEATH:	Type of place		_ Specific location		
Type of place: House,	ng hay bales, eating, typin apartment, trailer, school, room, assembly line, kitch that is income generating	ng letter, driving commerci jail, bar or tavem, hotel, r nen, front yard, office, part regardless of age of deced	ial truck, sleeping, bathing, watchir estaurant, store, street, hospital, fanking lot, emergency room, roadside, lent including farming or part time	ng television, fighting, etc. m, highway, factory, etc. , ambulance, car, etc.	
		DESCRIPTION	OF BODY		
CONDITION:		**************************************	Skeletonized rolonged immersion 🔲 E	khumed	
RIGOR: D No	one □ 1+ 🛛 2+ □	3+ LIVOR:	☐ None ☐ Anterior ④	Posterior Lateral	
HEIGHT: 4	3 inches □ Es	timate WE	IGHT: 45 pour	nds	
BODY TEMPERATEYES: Color 670			HAIR: Color bown		
		Dentures	alitiesalities		
	• -			☐ Not clothed☐ No valuables	



Indicate nature and location of wounds and other lesions (scars, tattoos, medical therapy, etc.) on these diagrams.

NARRATIVE SUMMARY OF CIRCUMSTANCES SURROUNDING DEATH

According to soft
According to sot was viding with her nother and two other
children on 1886 5t. in Worth Carolina when
nother vehicle ran a stop sign in Krent of Them. The
rehicle & t-bored the other, spun off and hit a street
syn. was not wearing a seat belt at the
time, but according to the nother had been earlier. She was evoled
up on the floor under the dash board on the passenger side. Airbage
did influte on The driver and passenger sides At
the patient was found to have a severe vertebral
column translocation (atlanto occipital dislocation). She was flied
resuscitated at stabilized and then transferred to tospetals.
On arrival the patient's jopils were fixed and deleted and she was
hemodynamically mustable. She was without brainsten function and did
_
not improve. On 196 an agree fest was attempted at which time
blood pressure I heart rate dropped and the intent was eventually
dientered dend at 1:05 pm.

PURPOSE: To document the findings of a medical examiner investigation. When completed, this form constitutes a report to the Chief Medical Examiner as required by G.S. 130A-385(a).

PREPARATION: The investigating medical examiner completes all appropriate information, and signs the certification statement on the front of the form.

DISTRIBUTION: Mail original copy to the Chief Medical Examiner in accordance with the current records disposition schedule published by the N.C. Division of Archives and History.

COPIES: Additional copies may be ordered from the Office of the Chief Medical Examiner in NC.

NASS CDS OCCUPANT ASSESSMENT FORM: CASE VEHICLE SECOND-SEATED LEFT PASSENGER

U.S. Department of Transportation National Highway Traffic Safety Administration

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1.21	OCCUPANT'S SEATING
1. Primary Sampling Unit Number	21
2. Case Number - Stratum 9612	10. Occupant's Seat Position Front Seat
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number	(13) Right side
	(14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
	Third Seat
2	(31) Left side
6. Occupant's Sex (1) Male	(32) Middle (33) Right side
(2) Female-not reported pregnant	(34) Other (specify):
(3) Female-pregnant-1st trimester(1st-3rd month)	(35) On or in the lap of another occupant
(4) Female-pregnant-2nd trimester(4th-6th month)	
(5) Female-pregnant-3rd trimester(7th-9th month)	Fourth Seat
(6) Female-pregnant-term unknown	(41) Left side (42) Middle
(9) Unknown	(43) Right side
	(44) Other (specify):
	(45) On or in the lap of another occupant
7. Occupant's Height <u>694</u>	
Code actual height to the nearest	(97) In or on unenclosed area
centimeter. (999) Unknown	(98) Other seat (specify):(99) Unknown
	(SO) STATIONTI
37inches X 2.54 = 93 centimeters	
2 2 2 1 2 1	11 Comments Barrer
8. Occupant's Weight Odd Oct Oct Oct Oct Oct Oct Oct Oct Oct Oct	11. Occupant's Posture (0) Normal posture
Code actual weight to the nearest kilogram.	·
(999) Unknown	Abnormal posture
20	(1) Kneeling or standing on seat (2) Lying on or across seat
$\underline{27}$ pounds X .4536 = $\underline{12}$ kilograms	(3) Kneeling, standing or sitting in front of seat
9. Occupant's Role	(4) Sitting sideways or turned to talk with another occupant or to look out a rear
9. Occupant's Role (1) Driver	window
(2) Passenger	(5) Sitting on a console
(9) Unknown	(6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in
	front of seat
	(8) Other abnormal posture (specify):
	(9) Unknown

EJEC'	TION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	0	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	0	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify):	0	not oriented to time or place (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown

	BELT SYSTEM FUNCTION			
18	(0 (1 (2 (3 (4 (5 <i>In</i>	lanual (Active) Belt System Availability None available Belt removed/destroyed Shoulder belt Lap belt Belt available—type unknown tegral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed)	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown	1
19.	(8 (9 M. (0	Other belt (specify): Unknown anual (Active) Belt System Use None used, not available, or belt removed/destroyed	 (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts 	۵
	(0: (0: (0: (0: (1: (1:3)	Inoperative (specify): Shoulder belt Lap belt Lap and shoulder belt Belt used—type unknown Other belt used (specify): Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child	(3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative)	0
20.	(18 (99 Pro (0) (1)	safety seat Belt used with child safety seat—type unknown Other belt used with child safety seat (specify): Unknown if belt used per Use of Manual (Active) Belts None used or not available Belt used properly	(specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	<u>0</u>
	Beh (3) (4) (5) (6) (7)	Belt used properly with child safety seat Used Improperly Shoulder belt worn under arm Shoulder belt worn behind back or seat Belt worn around more than one person Lap belt worn on abdomen Lap belt or lap and shoulder belt used improperly with child safety seat (specify): Other improper use of manual belt system (specify): Unknown	26. Proper Use of Automatic (Passive) Belt System (O) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or	0
21.	Mar Duri (0) (1) (2) (3) (4) (5)	nual (Active) Belt Failure Modes ing Accident No manual belt used or not available No manual belt failure(s) Torn webbing (stretched webbing not included) Broken buckle or latchplate	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify):	<u>o</u>
			(9) Unknown	

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Vehicle inspection [] Official injury data Driver/occupant interview [] Other (specify): [] Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AII	R BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown 38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available	 (9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify):
Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat
46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown	(1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	 (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
48. Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

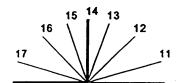
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

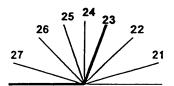
Slightly reclined prior to impact

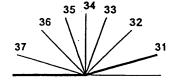
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







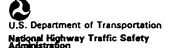
	CHILD SA	FETY SEAT
55.	Child Safety Seat Make/Model 998 (000) No child safety seat	58. Child Safety Seat Harness Usage <u>6</u> 3
	Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specific)	59. Child Safety Seat Shield Usage
	(997) Other make/model (specify): (998) Unknown make/model	60. Child Safety Seat Tether Usage
56.	Type of Child Safety Seat (0) No child safety seat	Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat Not Designed With Harness/Shield/Tether
	(1) Infant seat(2) Toddler seat(3) Convertible seat	(01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used
	 (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): 	(03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used
	(8) Unknown child safety seat type (9) Unknown if child safety seat used	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used
	Child Safety Seat Orientation (00) No child safety seat	(19) Unknown if harness/shield/tether used
	Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify):	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used
	(09) Unknown orientation	(99) Unknown if child safety seat used
	Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify):	
	(19) Unknown orientation	
•	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):	
	(29) Unknown orientation	
	(99) Unknown if child safety seat used	

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (O) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
STOP WO VARIABLE TO BE CODED BY	ES 66-74

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES		TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 2 hours, code number of days. (Note: 1 days, code number of days) (Note: 1 days) and a days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	4 ay =	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death	00	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units):
69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported	00	(9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃
injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):		(00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):		BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	00	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

NASS CDS OCCUPANT ASSESSMENT FORM: CASE VEHICLE SECOND-SEATED MIDDLE PASSENGER



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number / O	OCCUPANT'S SEATING
2. Case Number - Stratum 9612	10. Occupant's Seat Position Front Seat
3. Vehicle Number O 1	(11) Left side (12) Middle
4. Occupant Number O4	(13) Right side (14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lange of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 3 9 inches x 2.54 = 9 9 centimeters	(45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown 35 pounds X .4536 = 15 kilograms	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

EJECTION/ENTRAPMENT			
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	٥	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown	
13. Ejection Area (O) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	0	(0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place	
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	<u>O</u>	(2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown	

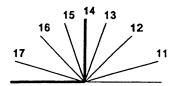
BELT SYSTE	M FUNCTION
18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
(9) Unknown 19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown	23. Automatic (Passive) Belt System Availability/ Function (O) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown
(08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used	24. Automatic (Passive) Belt System Use (O) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type
20. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat **Belt Used Improperly** (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	(0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21. Manual (Active) Belt Failure Modes During Accident (O) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):

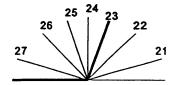
POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

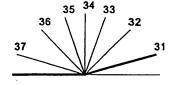
	FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35.	Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
	Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
38.	Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available	(9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed (9) Unknown
(Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
()	CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	H	EAD RESTRAINT AND SEAT EVALUATION
44.	Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged		Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back
45.	(97) Not deployed (98) Unknown if deployed (99) Unknown Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps):		 (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):
	(3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):	51.	(99) Unknown Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):
47.	(3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No	52.	(9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
	 (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown 		
	Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown		

HEAD RESTRAINT AND SEAT EVALUATION continued 53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat (01) Not adjustable Upright prior to impact (11) Moved to completely rearward position (12) Moved to rearward midrange position (13) Moved to slightly rearward position (14) Retained pre-impact position (15) Moved to slightly forward position (16) Moved to forward midrange position (17) Moved to completely forward position Slightly reclined prior to impact (21) Moved to completely rearward position (22) Moved to rearward midrange position (23) Retained pre-impact position (24) Moved to upright position (25) Moved to slightly forward position (26) Moved to forward midrange position (27) Moved to completely forward position Completely reclined prior to impact (31) Retained pre-impact position (32) Moved to rearward midrange position (33) Moved to slightly rearward position (34) Moved to upright position (35) Moved to slightly forward position (36) Moved to forward midrange position (37) Moved to completely forward position (99) Unknown 54. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion, (specify): (7) Combination of above (specify): (8) Other (specify): (9) Unknown







	CHILD S	AFET'	Y SEAT
55.	Child Safety Seat Make/Model 99999	58.	. Child Safety Seat Harness Usage <u>5</u> 3
	Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat	59.	. Child Safety Seat Shield Usage
	(997) Other make/model (specify): (998) Unknown make/model	60.	. Child Safety Seat Tether Usage <u>0</u> 3
	(999) Unknown if child safety seat used	,	Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat
56.	Type of Child Safety Seat	-	
	(0) No child safety seat (1) Infant seat		Not Designed With Harness/Shield/Tether
	(2) Toddler seat		(01) After market harness/shield/tether added, not used
	(3) Convertible seat		(02) After market harness/shield/tether used
	(4) Booster seat - with shield		(03) Child safety seat used, but no after market
	(5) Booster seat - without shield		harness/shield/tether added
	(7) Other type child safety seat (specify):		(09) Unknown if harness/shield/tether added or used
	(8) Unknown child safety seat type (9) Unknown if child safety seat used		Designed With Harness/Shield/Tether
	(3) Chikhowh ii child safety seat used		(11) Harness/shield/tether not used
		ı	(12) Harness/shield/tether used
	Child Safety Seat Orientation (00) No child safety seat	-	(19) Unknown if harness/shield/tether used
	Designed for Designed to the Title A markets	- 1	Unknown If Designed With Harness/Shield/Tether
	Designed for Rear Facing for This Age/Weight (01) Rear facing	- [(21) Harness/shield/tether not used (22) Harness/shield/tether used
	(02) Forward facing	- 1	(29) Unknown if harness/shield/tether used
	(08) Other orientation (specify):		(20) Olimotti ii halliessisimelajtetilei used
	(09) Unknown orientation		(99) Unknown if child safety seat used
	Designed For Forward Forigo 4 - 71: 4 - 041: 10		
	Designed For Forward Facing for This Age/Weight (11) Rear facing	- 1	
	(12) Forward facing	- 1	
	(18) Other orientation (specify):		
	(19) Unknown orientation		
	Unknown Design or Orientation For This	1	
	Age/Weight, or Unknown Age/Weight (21) Rear facing	1	
	(22) Forward facing	-	
	(28) Other orientation (specify):		
		1	
	(29) Unknown orientation		
	(99) Unknown if child safety seat used		

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (O) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (O0) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (OO) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
STOP WO	RK HERE

VARIABLES 66-74

INJURY CONSEQUENCES	TRAUMA DATA
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) - HCO ₃ (00) Not injured
this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled disease) (specify):	 (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO₃ (96) ABGs reported, HCO₃ unknown (97) Injured, details unknown (99) Unknown if injured
(99) Unknown	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

NASS CDS OCCUPANT ASSESSMENT FORM: VEHICLE #2 DRIVER



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

/ 0	OCCUPANT'S SEATING
1. Primary Sampling Unit Number	, ,
2. Case Number - Stratum 9612	10. Occupant's Seat Position
3. Vehicle Number <u>O</u> <u>A</u>	(11) Left side (12) Middle
	(12) Middle (13) Right side
4. Occupant Number O	(14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 3inches X 2.54 = 160 centimeters	(97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown 172 pounds x .4536 = 78 kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat
	(8) Other abnormal posture (specify): (9) Unknown

EJECTION/ENTRAPMENT			
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	15. Medium Status (Immediately Prior To Impact) (O) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown		
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	(0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place		
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	 (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify):		

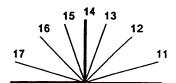
BELT SYSTEM FUNCTION		
18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment	
(9) Unknown 19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown	23. Automatic (Passive) Belt System Availability/ Function (O) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	
(08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available	
20. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	(1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or	
21. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):	

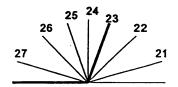
POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. Vehicle inspection Official injury data Driver/occupant interview Other (specify): Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of *other* air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

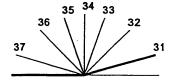
FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	(9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTE EVALUATION continued	M	Н	EAD RESTRAINT AND SEAT EVALUATION	
			149	. Head Restraint Type/Damage by Occupant 3	
44.	Source of Air Bag Damage	20		at This Occupant Position	l
	(00) Not equipped/not available			(0) No head restraints	
	(01) Not damaged			(1) Integral—no damage	
	(02) Object worn by occupant, (specify):			(2) Integral—damaged during accident	
	(00) 01:]	(3) Adjustable—no damage	
	(03) Object carried by occupant, (specify):			(4) Adjustable—damaged during accident	1
	(OA) Adams (a significant and a significant and		1	(5) Add-on—no damage	
	(04) Adaptive/assistive controls, (specify):		l	(6) Add-on-damaged during accident	
	(05) Fire in vehicle		l	(8) Other (specify):	1
	(06) Thermal burns		i	(9) Unknown	
	(07) Rescue or emergency efforts		i	(9) Unknown	1
	(88) Other damage source (specify):		50	. Seat Type (this Occupant Position)	1
			30.	(00) Occupant not seated or no seat	1
	(95) Damaged, unknown source		ı	(01) Bucket	
	(96) Deployed, unknown if damaged			(02) Bucket with folding back	
	(97) Not deployed		1	(03) Bench	ı
	(98) Unknown if deployed		1	(04) Bench with separate back cushions	
	(99) Unknown		1	(05) Bench with folding back(s)	ļ
	•			(06) Split bench with separate back cushions	
45.	Was The Air Bag Tethered?	0		(07) Split bench with folding back(s)	
٠٠.	(0) Not equipped/not available			(08) Pedestal (i.e., column supported)	1
	(1) No			(09) Box mounted seat (i.e., van type)	ı
	(2) Yes (specify number of tether straps):		1	(10) Other seat type (specify):	
			Į.		
	(3) Deployed, unknown if tethered			(99) Unknown	
	(7) Not deployed		E 4	Sant Origination (this Occupant Basisian)	l
	(8) Unknown if deployed		31.	Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat	
	(9) Unknown	_		(1) Forward facing seat	ı
46.	Did The Air Bag Have Vent Ports?	\bigcirc		(2) Rear facing seat	ı
	(0) Not equipped/not available		1	(3) Side facing seat (inward)	l
	(1) No		1	(4) Side facing seat (outward)	
	(2) Yes (specify number of vent ports):		1	(8) Other (specify):	
	(0)	_	l		
	(3) Deployed, unknown if vent ports present(7) Not deployed		1	(9) Unknown	ĺ
	(8) Unknown if deployed			2 . 7 . 1 . 1 . 1 . 2	اد ا
	(9) Unknown		52.	Seat Track Adjusted Position Prior To Impact	7
		•	ł	(0) Occupant not seated or no seat (1) Non-adjustable seat track	ĺ
47.	Was the Air Bag in this Occupant's Position	0	1	(1) NOT-BUJUSTABLE SEAT TRACK	ĺ
	Contacted by Another Occupant?		l	Adjustable Seat Track	ł
	(0) Not equipped/not available		1	(2) Seat at forward most track position	l
	(1) No		1	(3) Seat between forward most and middle track	l
	(2) Yes (specify):		İ	positions	l
	(3) Declared well-and it also			(4) Seat at middle track position	l
	(3) Deployed, unknown if other occupant co	ntact		(5) Seat between middle and rear most track	l
	to air bag (7) Not deployed		į	positions	l
	(7) Not deployed (8) Unknown if deployed		ı	(6) Seat at rear most track position	i
	(9) Unknown		ļ	(9) Unknown	ĺ
	•		1	V TO DAIVER VEHICLE	ĺ
48.	Was This Occupant Wearing Eye-wear?	\triangle		* per allives	1
	(0) Not air bag equipped/air bag not available	, —		Tis neation showed seat	
	(1) No		1	Inspection should be and	
	(2) Eyeglasses/sunglasses		1	TRACK IN Rearward MOST	Į
	(3) Contact lenses(4) Deployed, unknown if eyewear worn			position Most likely	1
	(7) Not deployed			position as moval	
	(8) Unknown if deployed		1	moved during reality	
	(9) Unknown			# per driver VEHICLE Inspection showed sect TRACK in Rearward most Position. Most likely moved during removal of driver by EMT's.	

HEAD RESTRAINT AND SEAT EVALUATION continued 53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat (01) Not adjustable Upright prior to impact (11) Moved to completely rearward position (12) Moved to rearward midrange position (13) Moved to slightly rearward position (14) Retained pre-impact position (15) Moved to slightly forward position (16) Moved to forward midrange position (17) Moved to completely forward position Slightly reclined prior to impact (21) Moved to completely rearward position (22) Moved to rearward midrange position (23) Retained pre-impact position (24) Moved to upright position (25) Moved to slightly forward position (26) Moved to forward midrange position (27) Moved to completely forward position Completely reclined prior to impact (31) Retained pre-impact position (32) Moved to rearward midrange position (33) Moved to slightly rearward position (34) Moved to upright position (35) Moved to slightly forward position (36) Moved to forward midrange position (37) Moved to completely forward position (99) Unknown 54. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion, (specify): (7) Combination of above (specify): (8) Other (specify): (9) Unknown







	CHILD SAI	ETY	SEAT
55.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat		Child Safety Seat Harness Usage Child Safety Seat Shield Usage
	(997) Other make/model (specify): (998) Unknown make/model		Child Safety Seat Tether Usage
56.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify):	V (0	Note: Options below applicable to Variables OA58-OA60. OO) No child safety seat Vot Designed With Harness/Shield/Tether O1) After market harness/shield/tether added, not used O2) After market harness/shield/tether used O3) Child safety seat used, but no after market harness/shield/tether added O9) Unknown if harness/shield/tether
	(8) Unknown child safety seat type (9) Unknown if child safety seat used	(1	added or used Designed With Harness/Shield/Tether 11) Harness/shield/tether not used 12) Harness/shield/tether used
57.	Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing	<i>U.</i>	19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether 21) Harness/shield/tether not used 22) Harness/shield/tether used
	(02) Forward facing (08) Other orientation (specify):	(2	29) Unknown if child safety seat used
	(09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify):		
	(19) Unknown orientation		
	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):		
	(29) Unknown orientation		
	(99) Unknown if child safety seat used		

	r age
INJURY CONSEQUENCES 61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown
Nonfatal (3) Hospitalization	(61) 61 days or more (99) Unknown
STOP WO	RK HERE

VARIABLES 66-74

	INJURY CONSEQUENCES	TRAUMA DATA
66.	Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67.	1st Medically Reported Cause of Death O	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given
68.	2nd Medically Reported Cause of Death _O_O	(specify units):(9) Unknown if blood given
69.	3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled	73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
	disease) (specify):	BELT USE DETERMINATION
	Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

NASS CDS OCCUPANT INJURY FORM: VEHICLE #2 DRIVER

Administration

U.S. Department of Transportation National Highway Traffic Safety

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

10

3. Vehicle Number

02

2. Case Number - Stratum

9612

4. Occupant Number

01

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	A.I.S 90										_				Injury			Occupan	ı			
			Source f Injui		odv	-	pe of tomic	Spec Anati			Level of	A.I.	s			Injury		Source nfidence	Dire Indire		Area Intrusion	١
			Data	-	gion		ucture	Struc			Injury	Seve		Aspect	t	Source		Level	Inju		Number	
FxB chvic	elst	5.	7	6.	7	7.	5	8. <u>2</u>	2	9.	00	104	2	11/	12.	10	<u>2</u> 13	3	14		. 00	
Injury Shoulde	P Cand Cand N	ر 16.	7	17.	7	18.	<u>5</u>	19/	0	20.	99	21	<u>/</u>	22/	23.	10	2 24	. 3	25. <u>/</u>	_ 26	s. <u>0 0</u>	
Lacerat Forehea	13rd	27	7	28.	2	29.	9	30. <u>O</u>	6	31.	00	32. <u>/</u>	<u>/</u>	337) 34. ₋	00	<u>/</u> 35	/	36. <u>/</u>	, _ 37	. 00	
Contusi B Brow		_																			00	
Contui B sho	ion.	49.	7	50.	7	51.	9	52. <u>Ø</u>	<u>4</u>	53.	02	54	_	55	56	10:	2 57	3	58. <u>/</u>	/ _ 59	00	
Laura B kne	fi ord 6th	60.	7	61.	<u>8</u>	62.	9	63. <u>O</u>	6	64.	00	65. <u>/</u>	/	66. /	67.	<u> </u>	2 68.	2	69. <u>/</u>	/ 70	00	
	7th	71.		72.	····-	73.		74		75.		76	_	77	78		_ 79.	· <u> </u>	80	_ 81	·	
	8th	82.		83.		84.	·	85		86.		87	- -	88	89		90.	· <u> </u>	91	_ 92	·	
	9th	93.	· —	94.		95.		96		97.	——	98	_	99	100		101.	·	102	_ 103	·	
	10th	104	1	05.		106.	1	07	1	08		109	_ 1	10	111.		112.		113	_ 114		
																						ĺ

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	Source of Injury Data	Body Region	Type of Anatomic Structure	A.I.S 90 Specific Anatomic Structure	Level of	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
11th											_
12th										. <u> </u>	
13th	. 		•			_	 .		· <u></u>	- · ·	-
14th	<u></u>			<u> </u>		.					
15th	<u> </u>	. —	- 			 . ,				_	<u> </u>
16th 17th	· <u></u>								·	· · · · · · · · · · · · · · · · · · ·	
18th			,				· · ·		<u> </u>		
19th	· · · · · · · · · · · · · · · · · · ·		,		· ·			· · · · · · · · · · · · · · · · · · ·			
20th		_		· · · · · · · · · · · · · · · · · · ·		-			.• .		
21st		_		<u></u>	, - .					 .	
22nd			-		a	_					
23rd ,					<u> </u>	_					
24th		·	·—	•		*****	·—				
25th					·					· . ——	. 8.

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